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OM nucleic acid - nucleic acid search, using sw model

Run on: January 31, 2004, 13:36:50 ; Search time 95 Seconds
(without alignments)
6328.040 Million cell updates/sec

Title: US-10-084-406-1

Sequence: 1362
1 atgaagatcttcaaatgtta.....atctcaccacacatcatcga 1362

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database:

Issued Patents NA:
1: /cgn2_6/prodata/1/ina/58_COMB.seq.*
2: /cgn2_6/prodata/1/ina/58_COMB.seq.*
3: /cgn2_6/prodata/1/ina/58_COMB.seq.*
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5: /cgn2_6/prodata/1/ina/58_COMB.seq.*
6: /cgn2_6/prodata/1/ina/backfile1.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	191.8	14.1	2128	US-09-233-506-1	Sequence 1, Appl
2	185.2	13.6	1807	US-08-118-906-13	Sequence 13, Appl
3	185.2	13.6	1807	US-08-486-196-13	Sequence 13, Appl
4	185.2	13.6	1807	US-08-488-135-13	Sequence 13, Appl
5	185.2	13.6	1807	US-08-474-065-13	Sequence 13, Appl
6	172.2	12.6	2105	US-07-955-041-3	Sequence 3, Appl
7	172.2	12.6	2105	US-08-272-455-3	Sequence 3, Appl
8	172.2	12.6	2105	US-08-427-482-3	Sequence 3, Appl
9	172.2	12.6	2105	US-08-487-069-3	Sequence 3, Appl
10	160.8	11.8	2102	US-09-063-237-3	Sequence 3, Appl
11	121.2	8.9	378	US-08-118-906-1	Sequence 1, Appl
12	121.2	8.9	378	US-08-486-196-1	Sequence 1, Appl
13	121.2	8.9	378	US-08-488-135-1	Sequence 1, Appl
14	121.2	8.9	378	US-08-474-065-1	Sequence 1, Appl
15	92.2	6.8	378	US-08-118-906-3	Sequence 3, Appl
16	92.2	6.8	378	US-08-486-196-3	Sequence 3, Appl
17	92.2	6.8	378	US-08-488-135-3	Sequence 3, Appl
18	92.2	6.8	378	US-08-474-065-3	Sequence 3, Appl
19	80.8	5.9	997	US-09-149-476-07	Sequence 307, App
20	53.4	3.9	192	US-09-233-506-9	Sequence 9, Appl
21	49.4	3.6	777	US-09-149-476-181	Sequence 181, App
22	46.2	3.4	6171	US-08-961-527-37	Sequence 37, Appl
23	42	3.1	99	US-08-118-906-5	Sequence 5, Appl
24	42	3.1	99	US-08-486-196-5	Sequence 5, Appl
25	42	3.1	99	US-08-488-135-5	Sequence 5, Appl
26	42	3.1	99	US-08-474-065-5	Sequence 5, Appl
27	40.6	3.0	7430	US-08-976-259-64	Sequence 64, Appl

C	28	37.2	2.7	7218	1	US-08-232-463-14	Sequence 14, Appl
	29	35.2	2.6	99	1	US-08-118-906-7	Sequence 7, Appl
	30	35.2	2.6	99	1	US-08-486-196-7	Sequence 7, Appl
	31	35.2	2.6	99	1	US-08-488-135-7	Sequence 7, Appl
	32	35.2	2.6	99	2	US-08-474-065-7	Sequence 4, Appl
C	33	35	2.6	1437	4	US-09-137-223A-4	Sequence 4, Appl
	34	35	2.6	1664976	4	US-08-916-421B-1	Sequence 163, App
	35	34.4	2.5	8494	4	US-08-961-527-163	Sequence 8, Appl
	36	34.2	2.5	3822	3	US-08-675-566-8	Sequence 11, Appl
	37	34.2	2.5	3861	3	US-08-675-566-11	Sequence 12, Appl
	38	34.2	2.5	3888	3	US-08-675-566-12	Sequence 10, Appl
	39	34.2	2.5	3955	3	US-08-675-566-9	Sequence 9, Appl
	40	34.2	2.5	4009	3	US-08-675-566-7	Sequence 13, Appl
	41	34.2	2.5	4503	3	US-08-675-566-13	Sequence 4, Appl
	42	34.2	2.5	7379	3	US-08-675-566-4	Sequence 1, Appl
	43	34.2	2.5	1928	3	US-08-809-513A-1	Sequence 2, Appl
C	44	33.8	2.5	5241	4	US-08-809-513A-2	
	45	33.8	2.5	5241	4	US-08-809-513A-2	

ALIGNMENTS

RESULT 1									
US-09-233-506-1									
Sequence 1, Application US/09233506									
Patent No. 6,136,580									
GENERAL INFORMATION:									
APPLICANT: Fukuoka, Minoru									
TITLE OF INVENTION: A Beta-1-6-N-Acetylglucosaminyltransferase That Forms									
FILE REFERENCE: P-LJ 3415									
CURRENT FILING DATE: 1999-01-19									
NUMBER OF SEQ ID NOS: 14									
SOFTWARE: Patentln Ver. 2.0									
SEQ ID NO 1									
LENGTH: 2128									
TYPE: DNA									
ORGANISM: Homo sapiens									
FEATURE:									
NAME/KEY: CDS									
LOCATION: (354)..(1670)									
US-09-233-506-1									
Query Match									
Best Local Similarity 14.1%; Score 191.8; DB 3; Length 2128;									
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;									
QY	317	TGACCAAGATTTGATGACATTTATGACACTTGAAGGTTATGCTCAAAAGCTTGTCTCA	376						
DB	670	TCACCAAGATTTGATGACATTTATGACACTTGAAGGTTATGCTCAAAAGCTTGTCTCA	729						
QY	377	AG	436						
DB	730	AG	789						
QY	437	TTGAAG	496						
DB	790	TTGAAG	849						
QY	497	GTAAG	556						
DB	850	AG	909						
QY	557	TTTCAATGCTTCAATTTAG	616						
DB	910	TTTCAATGCTTCAATTTAG	969						
QY	617	ATTAAATGCTTGTGAG	676						
DB	970	ACCTCAATGCTTGTGAG	1029						

QY 677 TGTGTGGGAGAGATTTTCCCTGAGTCAATTTTGAATGGTGTCAAGTTGAAAGAA 736
 DB 1030 CATGTGGGAGGAGCTTTCTTAATTAAGAGATGAGAGATGTTCCAGGCTCAAGAGT 1089
 QY 737 TCAATGGAGCAATATATGTGAGACGCTGAAACCCCAACAGTAATTTGAAAGATTCA 796
 DB 1090 TGAATGGAGAGATGAGATGAGAGTACCTCTTAAGACAAAGAAACCCCTGGA 1149
 QY 797 CTTCACATGATGAACTTAAGAGGAGCTCTTAAGATATGTAAGTACCAATPAAGACAA 856
 DB 1150 AATATCACTTGGTAGTAGAGACATTAAC-----CTAACCA 1191
 QY 857 ACATCTCAAG 916
 DB 1192 AGAAG 1251
 QY 917 TTTTAAGTCAAGATTTGTTAAATATATTTTCAACATCCACGTTCAAGACTTTTGG 976
 DB 1252 TGGCTTCCGAGATTTGTCACACATGTTTGAAGAACCTTAATCCCAACTGATTTG 1311
 QY 977 CTGTCTTAAGAGACATTAATCTCTGATGAGACATTTTGGCTACCTTGATTGCGGTTC 1036
 DB 1312 AATGGGTAAAGACATTAATAGCCAGATGACACCTTGGGCACTTCAAGCGTGCAC 1371
 QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAGCCAGAGATG---TGTCTGATCTGCAGAGTA 1093
 DB 1372 GGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1431
 QY 1094 AGATCGCTTGTCAAGTGAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1143
 DB 1432 TTGCGAGGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1491
 QY 1144 -----TGATGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1198
 DB 1492 CTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1551
 QY 1199 GGCTTAATCAAGATGAGATTTGTTGCTTAATTAATTAATTAATTAATTAATTAATTAAT 1258
 DB 1552 GGATGCTTCAAAACATCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1611
 QY 1259 TGAATTAATGCTTGGAGAGAAAGCT 1283
 DB 1612 CTCTTCAGTGTGAAGAAATACCT 1636

RESULT 2

US-08-118-906-13
 Sequence 13, Application US/08118906
 Patent No. 5484590

GENERAL INFORMATION:

APPLICANT: Fukuda, Minoru
 APPLICANT: Bierhuizen, Marti F.A.

TITLE OF INVENTION: Expression of the Developmental I
 TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
 TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family

NUMBER OF SEQUENCES: 14
 CORRESPONDENCE ADDRESSES:

ADDRESSES: Campbell and Flores
 STREET: 4370 La Jolla Village Drive, Suite 700
 CITY: San Diego
 STATE: California

COUNTRY: USA
 ZIP: 92122

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/118,906

FILING DATE: 09-SEP-1993
 CLASSIFICATION: 536

ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Cathryn A.
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9526
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-9001
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1807 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 255..1454
 US-08-118-906-13

Query Match 13.6%; Score 185.2; DB 1; Length 1807;
 Best Local Similarity 52.1%; Pred. No. 6.4e-41;
 Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

QY 327 TTGTGACATTTATCAGACTGTAAGAGTTATGCTCAAAAGCTTGTCTCAAGAGAGAGAA 386
 DB 467 TTGCAAGAAATTAATGACCCAGAGCCACTATCAGAGCCCTTTATCTAAGAGAGAGAG 526
 QY 387 AAGCTTCCCAATAGCCATTTCTTGGTGTGCAAAAGATGCAATTAATGTTGAAGAGCT 446
 DB 527 TGACTTTCCTTGCAATATTAATGATGATGATGATGATGATGATGATGATGATGATGATG 586
 QY 447 TATCAGATGATATATACACAGAGCAATATTAATGATGATGATGATGATGATGATGATGATG 506
 DB 587 CTTCAGAGGATATTAAGAGGAG 646
 QY 507 TGAATACCTTCAAGATGAG 566
 DB 647 AACTGAATTAATGAATGAG 706
 QY 567 TTCCAAATTAAG 626
 DB 707 TTCCAAATTAAG 766
 QY 627 CTGTGAGACTTCTGAGAGTCTTCAATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 686
 DB 767 CATCAGAGATCTTCTGCTGAGAGTCTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 826
 QY 687 AGATTTTCCCTGAGAGTCAATTTTGAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 746
 DB 827 AGACTTCCCTGAG 806
 QY 747 AATATGTTGAG 806
 DB 887 AATATGTTGAG 946
 QY 807 TGAATTAAG 866
 DB 947 CCAAG 1000
 QY 867 GGAG 926
 DB 1001 ACCGCTCCCTCCCAATATCTCAGAGATTAATTAATTAATTAATTAATTAATTAATTAAG 1060
 QY 927 AGCATTTGTTAAATATTAATTTTCAACATCTCATGATGATGATGATGATGATGATGATGAT 986
 DB 1061 AAGATTTGTTAAATATTAATTTTCAACATCTCATGATGATGATGATGATGATGATGATGAT 1120
 QY 987 AGACACATACCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1046
 DB 1121 GGACACTTCAAGTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1180
 QY 1047 TGGGAGAGATTTCCAGATGAG 1106

FILING DATE: 09-SEP-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Campbell, Cathryn A.
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9296
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (619) 535-9001
 TELEFAX: (619) 535-8949
 INFORMATION FOR SEQ ID NO: 13:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 1807 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 255..1454
 US-08-474-065-13

Query Match 13.6%; Score 185.2; DB 2; Length 1807;
 Best Local Similarity 52.1%; Pred. No. 6,4e-41;
 Matches 502; Conservative 0; Mismatches 438; Indels 24; Gaps 3;

327 TTGTGACATTTATCAGACTCTAAGAGTTATGCTCAAAAGCTTGTCTCAAGAGAGAGA 386
 467 TTGACAGAGATCTTGACCCAGAGCCAGCACTACACAGCCCTTATCTAAGAGAGAGC 526
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 527 TGACTTCCCTTGAGCAATATATATGATGATCCTTACCTTGAACCTTTGCAAGGCT 586
 447 TATCCATGCTATATACACAGCAGCAATATTTACTGCATTCATCATATATATGATGTAAGGACC 506
 587 CTTCAGGCTATTTATGATGCCCCAATATCTACTGTGTTCACTGATGGAAGAAAGCAGC 646
 507 TGATACCTTCAAGTGGCCATGAGCAATTTAGCTAAGTGTCTTCCAAATATTTTCTATG 566
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 987 AGACATATCTCTCTGATGAGCACTTTTGGGCTTACCTTGAATGCGGTTCCAGGAATACC 1046
 1121 GACACCTTCACTCTGATGAGCACTTTTGGGTTGACATCAATGATTCAGAGTGTCC 1180
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Db 1181 TGCTCATGCCAAAGCATCTCGACTG-----GAACTCATGAGCTAT 1225
 1107 CAAGTGAATTTACTTANGAGGCTTTTCTATCCAGTTGACTGATCTACCTTTGAAG 1166
 1226 AAAGTGAAGTGAATGAG 1282
 1167 CGGTGATTTTATGAGAGCTGAGAAATTAAGTGGCTTATCAAGATGACATTTGTTGC 1226
 1283 TATTTGATCTATGAG 1342
 1227 TAAATTAATTTGATCTTAAAGTGAACCTTATCTTGAATTAATGCTTGGCAGAAAAGCTTGA 1286
 1343 TAAACAGTTTGAAGTTATACCTTACCCCTTACTGTGAGATGCTTGAAGTGAAGATG 1402
 1287 AGAA 1290
 1403 CGAA 1406

RESULT 6
 US-07-955-041-3
 Sequence 3, Application US/07955041
 Patent No. 5360733
 GENERAL INFORMATION:
 APPLICANT: FUKUDA, MINORU
 APPLICANT: BIERHUIZEN, MARTI FA
 TITLE OF INVENTION: A NOVEL BETA1-6
 TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
 TITLE OF INVENTION: LEUKOSILIN AND A METHOD FOR CLONING PROTEINS HAVING
 TITLE OF INVENTION: ENZYMACTIC ACTIVITY
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESSES:
 ADDRESS: CAMPBELL AND FLORES
 STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 CITY: SAN DIEGO
 STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 92122
 COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/955,041
 FILING DATE: 19921001
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: CAMPBELL, CATHRYN
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9294
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-535-9001
 TELEFAX: 619-535-8949
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2105 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: both
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 220..1504
 FEATURE:
 NAME/KEY: POLYA_signal
 LOCATION: 1913..1918
 FEATURE:
 NAME/KEY: misc_signal
 LOCATION: 248..314
 OTHER INFORMATION: /standard name=
 OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"

US-07-955-041-3

Query Match 12.6%; Score 172; DB 1; Length 2105;
 Best Local Similarity 51.7%; Pred. No. 2.6e-37;
 Matches 515; Conservative 0; Mismatches 445; Indels 36; Gaps 4;

QY 300 TGATGATGTTGGCAATGACAGATGATGTCATTTATGAGCTTAAGAGTTATGC 359
 DB 489 TGACGATATATTAACATGACAGATGATGTTCTTCTTCATCAAGAGCGCAATATAT 548
 QY 360 TCAAAAGCTTGTCTCAAGAGAGAGAAAAGCTTCCCAATAGCCTATTTGGTGTCCA 419
 DB 549 TGTGAAGACCCCTAGTAAAGAGAGCGGAGTTTCCAAATAGATATTTGATGCTTCA 608
 QY 420 CAAAGATGCAATATGTTGAAAGGCTTATCCATGCTATATTCACACGACCAATATTTA 479
 DB 609 TCACAGATTTGAATGCTTGAACGCTGCTGAGGGCATCTATATGCTCAGAAATTTCTA 668
 QY 480 CTGCATCCATTAATGATGCTAAGCACTGATACCTTCAAGTGGCATGAACTATTAGC 539
 DB 669 TTGCGTTCAATGTGACACAAAATCCAGGATTCCTATTAGCTGACAGTGAATGCGC 728
 QY 540 TAAGTCTTCTCCAAATTTTTCATTGCTTCCAAATTAGAGCTGTGAATATGCCACAT 599
 DB 729 TTCCGTTTATGATGCTTGTGTGCGCAGCGATTGAGAGTGTGTTATGCAATCGTG 788
 QY 600 TTCCAGACTCCAGGCTGATTTAAATGCTTGTGCGACCTTGAAGTCTTCAATCCAGTG 659
 DB 789 GAGCGGGTTCAAGCTGACCTCACTGCAATGAAAGATCTCTATGCAATGAGCAAACTG 848
 QY 660 GAAATATGTTATCACTGTGTGGGCAAGATTTTCCCTGAAGTCAATTTGAAATGCT 719
 DB 849 GAAGTCTGATTAATCTTTGTGTGTATGATTTTCCATTAACCACTGAATTTGT 908
 QY 720 GTGAGGTTGAAAAAAGCTCAATGAGCAAAATATGTTGAGAGAGGAGAAACCCCAAG 779
 DB 909 CAGAGGCTCAAGTTTATGAGGAGAAAACAACTGAGAAAGAGAGATGCCATCCCA 968
 QY 780 TAAATGGAAGAATTCATTCATCATCATGATGACGGGTGCTTATGATATATGTA 839
 DB 969 TAAAGAAAGAGGTGAGAGAGCGGTATGA-----GTCGTTATGAGAAACCTGAC 1019
 QY 840 GCTACCAATAGAGCAAAATCTCCCAAGAGACACCCCCCAATTCATTCAGATTTTGT 899
 DB 1020 -----AAACACAGGAGCTGTCAAAATGCTTCTCCATCGAAACACTCTCTTTTC 1070
 QY 900 TGGCAGTGTATTTTGTGTTTAAATGACATTTGTTAAATATTTTCAACACTGCAT 959
 DB 1071 TGGCAGTGTCTACTTGTGTGTGAGTAGGAGTATGTGGGTATGTAATAAGAAATA 1130
 QY 960 CGTTCAAGACTTTTGGCTGTCTTAAAGACATATCTCTCTGATGAGCACTTTTGGGC 1019
 DB 1131 AATCCAAAAGTATGATGAGGTGGGACAAACATATCAAGCTTGAATATCTCTGGGC 1190
 QY 1020 TACCTGATTCGGGTTCCAGAAATACCTGAGGAGAT---TTCAGATTCAGCCAGAGAT 1076
 DB 1191 CACCATCCAAAAGATTCCTGAAGTCCGAGGCTCACTCCCTGCACAGCAATATGATGT 1250
 QY 1077 GTTGTATCTGCAAGTAAGATGCTTGTCAAGTGAATTAATGAAAGGCTTTT--- 1133
 DB 1251 ATCTGACATGCAAGCAGTGTCCAGGTTTGTCAAGTGGAGTACTTTGAGGGAGATGTTTC 1310
 QY 1134 -----CTATCCAGTGTGTGATCTCACTTCCAGAGGCTGTATTTATG 1181
 DB 1311 CAAAGGTGCTCCCTAACCCGCCCTGCGATGAGATGCCATGTGCGTCAAGTGTGATTTGCG 1370
 QY 1182 AGCTGCAAGATTAAGGTGCTTATCAAAGATGACATTTGTTGCTAATTAATTTGATTC 1241
 DB 1371 AGCTGTGACTTAAGATGATGTGCGCAACACCACTTGTTCCTCAATTAATTTGACGT 1430
 QY 1242 TAAGTGCACCTATCTTGAATTAATGCTTGGCAGA 1277
 DB 1431 GGAATGTGACCTCTTTGCCATCCAGTCTTTGATGA 1466

RESULT 7
 US-08-227-455-3
 ; Sequence 3; Application US/08227455

Patent No. 5624832

GENERAL INFORMATION:

APPLICANT: FUKUDA, MINORU

APPLICANT: BIERHUIZEN, MARTI PA

TITLE OF INVENTION: A NOVEL BETAL-6

TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,

TITLE OF INVENTION: LEUCOSTILIN AND A METHOD FOR CLONING PROTEINS HAVING

NUMBER OF INVENTIONS: ENZYMATIC ACTIVITY

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: CAMPBELL AND FLORES

STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700

CITY: SAN DIEGO

STATE: CALIFORNIA

COUNTRY: USA

ZIP: 92122

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/227,455

FILING DATE: 14-APR-1994

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: CAMPBELL, CATRYN

REGISTRATION NUMBER: 31,815

REFERENCE/DOCKET NUMBER: P-LJ 9957

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619-535-9001

TELEFAX: 619-535-8949

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 2105 base pairs

TYPE: nucleic acid

STRANDEDNESS: both

TOPOLOGY: linear

MOLECULE TYPE: cDNA

FEATURE:

NAME/KEY: CDS

LOCATION: 220..1504

FEATURE:

NAME/KEY: polyA signal

LOCATION: 1913..1918

FEATURE:

NAME/KEY: misc signal

LOCATION: 248..314

OTHER INFORMATION: /standard name=

OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"

US-08-227-455-3

Query Match 12.6%; Score 172; DB 1; Length 2105;

Best Local Similarity 51.7%; Pred. No. 2.6e-37;

Matches 515; Conservative 0; Mismatches 445; Indels 36; Gaps 4;

QY 300 TGATGATGTTGGCAATGACAGATGATGTCATTTATGAGCTTAAGAGTTATGC 359
 DB 489 TGACGATATATTAACATGACAGATGATGTTCTTCTTCATCAAGAGCGCAATATAT 548
 QY 360 TCAAAAGCTTGTCTCAAGAGAGAGAAAAGCTTCCCAATAGCCTATTTGGTGTCCA 419
 DB 549 TGTGAAGACCCCTAGTAAAGAGAGCGGAGTTTCCAAATAGATATTTGATGCTTCA 608
 QY 420 CAAAGATGCAATATGTTGAAAGGCTTATCCATGCTATATTCACACGACCAATATTTA 479
 DB 609 TCACAGATTTGAATGCTTGAACGCTGCTGAGGGCATCTATATGCTCAGAAATTTCTA 668

QY 480 CTGCATCCATTATGATGCTAAGGACCTGATACCTTCAAAAGTTGGCATGAACTATTAGC 539
 DB 669 TTGGCTTCAATGTTGGAACAATAATCCGAAATTCCTATTATTAAGTGAAGATGGAGATGC 728
 QY 540 TAAGTCTCTCCCAATATTTTCAATGCTTCCAAATATAGAGCTGTGAATATGCCACAT 599
 DB 729 TTCCCTGTTTAAAGTAATGCTTTGTGTGCGCAGCATTTGAGAGATGTGGTTTATGATCGTG 788
 QY 600 TTCCAGACTCCAGGCTGATTTAAATGCTTGTGCGACCTTCTGAAGCTTCAATCACTG 659
 DB 789 GAGCCGGGTTCAGGCTGACCTCAACTGATGAAGATCTCTATGCAATGAGTGCAAACTG 848
 QY 660 GAAATATGTTATCACTTGTGTTGAGGCAAGATTTTCCCGTGAAGTCAAAATTTGAATGAT 719
 DB 849 GAACTACTGATTAATCTTTGTGTGATGATGATTTTCCCATTAACCACTGAAATGAT 908
 QY 720 GTCCAGATTGAAAAAATCAATGAGCAATAATGTTGAGACGGTGAACCCCAACAG 779
 DB 909 CAGGAAGCTCAAGTTGTATGAGGAGAAAAACAACCGGAAACGAGAGAGATGCCATCCCA 968
 QY 780 TAAATTGGAAGAATCACTTAACATGATGATGAGGGGTGCTTATGATATGATG 839
 DB 969 TAAAGAAAGAGTGGAGAGAGCGGTATGA-----GCTGTTATGAGAACTGAC 1019
 QY 840 GCTACCAATAGGACAAACATCTCCAGGAGACCCGCCATTAACATTCAGATATTGT 899
 DB 1020 -----AAACACAGGGAGCTGTCAAAATGCTTCTCCATCGAAACACCTCTCTTTTC 1070
 QY 900 TGGCAGTCTTATTTTGTTTTAAAGTCAACATTTGTTAAATATTTTCAACAATCCAT 959
 DB 1071 TGGCAGTCTTATTTGTTGTGTGATGAGGATGAGGATGAGTGAACAAGTGA 1130
 QY 960 CATTCAAGACTTTTGTGCTGTCTAAGACATATCTCTCTGATGAGCACTTTTGGGC 1019
 DB 1131 AATCCAAAGTGTATGAGAGTGGGACACAACAACATCAACCTGATGATATCTCTGGGC 1190
 QY 1020 TACTTGAATCGGCTTCCAGGAATACCTGGGAGAT---TTCCAGATCAGCCAGAGAT 1076
 DB 1191 CACCATCCAAAGATTCCTGAAATCCCGGGCTCACTCCCTGCAGCATTAAGTATGACT 1250
 QY 1077 GCTGATCTGCAAGATGAGATGCTGCTTCAAGTGAATATCTATGAGAGCTTTT--- 1133
 DB 1251 ATCTGATGCAAGCAAGCTGCGAGTTTGTCAAGTGCAGTCTTGAAGGATGATTTTC 1310
 QY 1134 -----CTATCCAGTTGTAAGTGAATCTCAAGTGTGATTTTATG 1181
 DB 1311 CAGGCTGCTCCCTACCCCGCTCGATGAGTCCATGTCGCTCAGTGTGATTTTTCG 1370
 QY 1182 AGCTGAGAAATTAAGGCTTATCAAGTGAAGTGAATGCTTGAATTAATTTGATTC 1241
 DB 1371 AGCTGATGACTTAAGTGAATGCTGCGCAACCACTTGTGTTGCCAATTAAGTTTGC 1430
 QY 1242 TAAGTGAACCTTATCTTGAATTAATGCTTGGCAGA 1277
 DB 1431 GAGTGTGACCTCTTGGCATCGAGTGTGGATGA 1466
 RESULT 8
 US-08-472-482-3
 ; Sequence 3, Application US/08472482
 ; Patent No. 5658778
 ; GENERAL INFORMATION:
 ; APPLICANT: FUKUDA, MINORU
 ; APPLICANT: BIERHUIZEN, MARTI FA
 ; TITLE OF INVENTION: A NOVEL BRN1-6
 ; TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
 ; TITLE OF INVENTION: LEUCOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
 ; NUMBER OF SEQUENCES: 8
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: CAMPBELL AND FLORES
 ; STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
 ; CITY: SAN DIEGO

STATE: CALIFORNIA
 COUNTRY: USA
 ZIP: 92122
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/472,482
 FILING DATE:
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/955,041
 FILING DATE: 01-OCT-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: CAMPBELL, CATHERIN
 REGISTRATION NUMBER: 31,815
 REFERENCE/DOCKET NUMBER: P-LJ 9294
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-535-9001
 TELEFAX: 619-535-8949
 INFORMATION FOR SEQ ID NO: 3:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2105 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: both
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 FEATURE:
 NAME/KEY: CDS
 LOCATION: 220..1504
 FEATURE:
 NAME/KEY: polyA signal
 LOCATION: 1913..1918
 FEATURE:
 NAME/KEY: misc signal
 LOCATION: 248..314
 OTHER INFORMATION: /standard name=
 OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"
 US-08-472-482-3
 Query Match 12.6%; Score 172; DB 1; Length 2105;
 Best Local Similarity 51.7%; Pred. No. 2.6e-37; Indels 36; Gaps 4;
 Matches 515; Conservative 0; Mismatches 445;

QY 300 TGATGATGTTGTGCAATGACCAAGTATGATGATTCATTAACAATCTTAAGAGTTATGC 359
 DB 489 TGAAGCATATTAATAATGACCAAGTATGATGATGATGATGATGATGATGATGATGAT 548
 QY 360 TCAAAAGCTGTCTCAAAAGAGAGAAAGCTTCCCAATAGCCATTTCTTGTGTGCCA 419
 DB 549 TGTGAACCCCTTAAGTAAAGAGAGAGGAGGATTTCCAAATGCAATTTCTAATAGGTTCA 608
 QY 420 CAAAGATGCAATATGTTGTAAGAGCTTATCAATGCTATATACCAACGACGACATATTTA 479
 DB 609 TCACAAATGGAATGCTTGAAGAGCTGCTGAAGGCGCATATATGCTCAGAAATTTCTA 668
 QY 480 CTGCATCCATTATGATGCTAAGGACCTGATACCTTCAAAAGTTGCCATGAACAATTTAGC 539
 DB 669 TTGGCTTCAATGTTGGAACAATAATCCGAAATTCCTATTATTAAGTGAAGATGGAGATGC 728
 QY 540 TAAGTCTCTCCCAATATTTTCAATGCTTCCAAATATAGAGCTGTGAATATGCCACAT 599
 DB 729 TTCCCTGTTTAAAGTAATGCTTTGTGTGCGCAGCATTTGAGAGATGTGGTTTATGATCGTG 788
 QY 600 TTCCAGACTCCAGGCTGATTTAAATGCTTGTGCGACCTTCTGAAGCTTCAATCACTG 659
 DB 789 GAGCCGGGTTCAGGCTGACCTCAACTGATGAAGATCTCTATGCAATGAGTGCAAACTG 848
 QY 660 GAAATATGTTATCACTTGTGTTGAGGCAAGATTTTCCCGTGAAGTCAAAATTTGAATGAT 719
 DB 849 GAACTACTGATTAATCTTTGTGTGATGATGATTTTCCCATTAACCACTGAAATGAT 908

QY 720 GTGAGTGTGAAAAAAGCTCAATGAGCAATATGTTGGAGCGGTGAACCCCAACAG 779
DB 909 CAGGAAAGCTCAAGTTGTTATGGAGAAACAACTGGAAAGGAGAGATGCCATCCCA 968
QY 780 TAAATTGAAAGATTACTTACCATCATGATGACTAGACGGGTGCTTATGAAATGATGA 839
DB 969 TAAAGAAAGAGGTGAGAGAGGGATGA-----GGTGTAAATGAAAGCTGAC 1019
QY 840 GCTACCAATAGAGCAAACTCTCAAGAGAGACCCCAATTAATTCAGATATTGT 899
DB 1020 -----AAACACAGGAGCTGCAAAATGCTTCTTCACTCGAAACCTCTTTTC 1070
QY 900 TGGCAGTGTCTATTTTGTGTTTAAATGCAAGCATTTGTTAAATATTTTCAACATCCAT 959
DB 1071 TGGCAGTGTCTACTTGTGTGTCAGTAGGAGATATGAGGAGTATGACTACAGAAAGAAA 1130
QY 960 CGTTCAAGACTTTTGTCCGTGTAAAGCAATCTCTCTGATGAGCACTTTTGGGC 1019
DB 1131 AATCCAAAGTTGATGAGTGGGCAACAGACATACAGCTGATGATCTCTGGGC 1190
QY 1020 TACCTTGATTCGGGTTCAGGAATACCTGGGAGAT--TTCAGATCAGCCAGATGT 1076
DB 1191 CACCATTCAGAGATTCCTGAGATCCCGGCTCCTCCTCCAGCAGCATATGATGATCT 1250
QY 1077 GTCTGATCTGCAAGTAAGATCGCTGTGCAAGTGAATTAATAAGAGCTTTT--- 1133
DB 1251 ATCTGACATGCAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1310
QY 1134 -----CTATCCAGTTGTACTGTGATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1181
DB 1311 CAGGAGTGTCTCTTACCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1370
QY 1182 AGCTGAGATTAAGAGTGTCTTCAAGATGAGCAATGGTGTGTAATTAATTTGATTC 1241
DB 1371 AGCTGAGCTTAAGATGAGTGTCTGCGCAACACCTGTTGTCATTAAGTTGACGT 1430
QY 1242 TAAGTGAACCTATCTTGAATTAATGCTTGGCAGA 1277
DB 1431 GATGTGACCTCTTGGCCATCCAGTGTGGATGA 1466

RESULT 9
US-08-487-069-3
Sequence 3, Application US/08487069
Patent No. 5684134
GENERAL INFORMATION:
APPLICANT: FUKUDA, MINORU
TITLE OF INVENTION: A NOVEL BETAL-6
TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
TITLE OF INVENTION: ENZYMAIC ACTIVITY
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL AND FLORES
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
CITY: SAN DIEGO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/487,069
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/955,041
FILING DATE: 01-OCT-1992

ATTORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CATHRYN
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9294
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-535-9001
TELEFAX: 619-535-8949
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2105 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 220..1504
FEATURE:
NAME/KEY: polyA signal
LOCATION: 1913..1918
FEATURE:
NAME/KEY: misc signal
LOCATION: 248..314 /standard name=
OTHER INFORMATION: "SIGNAL/MEMBRANE-ANCHORING DOMAIN"
US-08-487-069-3

Query Match 12.6%; Score 172; DB 1; Length 2105;
Best Local Similarity 51.7%; Pred. No. 2,6e-37;
Matches 515; Conservative 0; Mismatches 445; Indels 36; Gaps 4;

QY 300 TGATGATGTTGTGCAATGACCAAGTATGTCATTTACAGCTCTAAGAGTTATGC 359
DB 489 TGACGACTAATATAAACAATGACCAAGTATGTCATTTCTTCTTATCAGAGCAAAATATAT 548
QY 360 TCAAAAGCTGTCTCCAAAGAGAGAGAAAGCTTCCCAATAGCCATTTCTTGTGTGCA 419
DB 549 TGTGAACCCCTTATGTAAGAGAGAGGCGGAGTTCCAAAGCATATTTCTATAGTGTCA 608
QY 420 CAAAGATGCAATTAATGTTGAAAGGCTTATCATGCTATATACAAACAGACCAATATTA 479
DB 609 TCACAAAGTTGAATATGCTTGAAGAGGCTGAGGAGGCTCATATATGCTCAGAAATTTCTA 668
QY 480 CTGCATCATTTATGATGTAAGGACCTGATACCTTCAAGTGGCATGAACAATTAAGC 539
DB 669 TTGCGTTGATGAGACCAAAATCCAGGATTCCTATTTAGCTGCAATGATGGCATGCG 728
QY 540 TAAGTGTCTCCAAATATTTTCATTGCTTCCAAATTAAGAGGCTGTGAAATATGCCACAT 599
DB 729 TTCTGTTTATGTAATGCTTGTGTCGACGATGGAAGAGTGTGTTATGATGATGCTG 788
QY 600 TTCCAGATCCAGAGCTGATTAATTTGCTGTGGAGACCTTCTGAAGCTTCAATCCAGTG 659
DB 789 GAGCGGGTTAGGCTGACCTCAACCTGATGAAAGATCTTATGCAATGATGCAAACTG 848
QY 660 GAATATGTTATCAACTGTGTGAGCAAAATTTTCCCTGAGAGTCAATTTTGAATTTGT 719
DB 849 GAGTACTGATTAATCTTGTGTGATGATTTTCCCATTAATAACCAACCTGAAATTTGT 908
QY 720 GTGAGTGTGAAAAAAGCTCAATGAGCAATATGTTGGAGCGGTGAACCCCAACAG 779
DB 909 CAGGAAAGCTCAAGTTGTTATGGAGAAACAACTGGAAAGGAGAGATGCCATCCCA 968
QY 780 TAAATTGAAAGATTACTTACCATCATGATGACTAGACGGGTGCTTATGAAATGATGA 839
DB 969 TAAAGAAAGAGGTGAGAGAGGGATGA-----GGTGTAAATGAAAGCTGAC 1019
QY 840 GCTACCAATAGAGCAAACTCTCAAGAGAGACCCCAATTAATTCAGATATTGT 899
DB 1020 -----AAACACAGGAGCTGCAAAATGCTTCTTCACTCGAAACCTCTTTTC 1070
QY 900 TGGCAGTGTCTATTTTGTGTTTAAATGCAAGCATTTGTTAAATATTTTCAACATCCAT 959

Db 1071 TGGCAGTGGCTACTTCGTGATGAGTAGGAGATGTGGGGTATGTACTACAGATGAAAA 1130
 QY 960 CGTTCAAGACTTTTGGCTGGCTGATTAAGACATCTCTCTGATGAGCACTTTGGGC 1019
 Db 1131 AATCCAAAGTGTATGAGTGGACACAGACATACAGCTTGATGATCTCTGGGC 1190
 QY 1020 TACCTTGATTCGGGTTCCAGAAATACCTGGGGAGAT--TTCCAGATCAGCCAGAGAT 1076
 Db 1191 CACCATTCAGAGATTCCTGAAGTCCGGGCTCAGCTCCCTCAGCAGCAATAGTATGATCT 1250
 QY 1077 GTCTGATTCGAGATTAAGACTGCTCTTCAAGTGGATTAATTAAGAGCTTTT--- 1133
 Db 1251 ATCTGACATGCAAGCAGTGGCCAGGTTTGTCAAGTGGACATCTTGGAGGGATGTTTC 1310
 QY 1134 -----CTATCCCAAGTTGTACTGATCTCACTTCGAAAGCGTGTATTAAG 1181
 Db 1311 CAAGGTGCTCCCTACCCGCCCTGGAGATGAGTGCATGTGCGCTCATGTGATTTGGC 1370
 QY 1182 AGCTGCAGAATTAAGTGGCTTATCAAGATGACATTTGGTTGTAATTAATTTGATTC 1241
 Db 1371 AGCTGTGACTGAACTGATGCTGGGCAAAACCACTGTGTTGCCAATTAAGTTGACGT 1430
 QY 1242 TAAGTGAACCTATCTGATTAATGCTTGACAGA 1277
 Db 1431 GGAATGTGACCTCTTGGCATCCAGTGTGGATGA 1466

RESULT 10

US-09-063-237-3

Sequence 3, Application US/09063237

Patent No. 6124267

GENERAL INFORMATION:

APPLICANT: McEwer, Rodger P.

APPLICANT: Cummings, Richard D.

TITLE OF INVENTION: O-glycan inhibitors of Selectin Mediated

NUMBER OF SEQUENCES: 5

CORRESPONDENCE ADDRESS:

ADDRESSEE: Patrea L. Pabst

STREET: 2800 One Atlantic Center, 1201 West Peachtree

CITY: Atlanta

STATE: Georgia

COUNTRY: US

ZIP: 30306-3450

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: IBM PC compatible

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/063.237

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/649,802

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Pabst, Patrea L.

REGISTRATION NUMBER: 31,284

TELECOMMUNICATION INFORMATION:

TELEPHONE: (404)873-8794

TELEFAX: (404)873-8795

INFORMATION FOR SEQ ID NO: 3:

SEQUENCE CHARACTERISTICS:

LENGTH: 2102 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-09-063-237-3

Query Match 11.8%; Score 160.8; DB 3; Length 2102;
 Best Local Similarity 51.0%; Pred. No. 3e-34;
 Matches 508; Conservative 0; Mismatches 452; Indels 36; Gaps 4;

QY 300 TGATGATGTGTGGCAATGACCAAGTGTGTGACATTTATACAGACTCTAGAGTTATG 359
 Db 488 TGACGACTATATAACATGACAGTATCTTTCTTTTATCAAGAGACGAATATAT 547
 QY 360 TCAAAAGCTGTCTCAAAAGAGAGAAAAGCTTCCCAATAGCTTATTTTGTGTCCA 419
 Db 548 TGTGAACCCCTTATGTAAAGAGAGGAGGAGTTTCCAAATGCAATTTCTATAGGTCA 607
 QY 420 CAAGAGCAATTAATGTTGAAAGGCTTATTCATGCTATATACACAGCAATAATTA 479
 Db 608 TCACAAAGATGAATGCTTATACAGCTGTGAGGCGCATATATGCTCAGAAATTTCTA 667
 QY 480 CTGATCCATTAATGATGTAAGGCACTGATTAATCTTAAGTTGCAATGCAATTTAGC 539
 Db 668 TTGGCTTCATGTGACACAAATCCGAGATTCCTATTTAGCTGACGTATGGCATTCGC 727
 QY 540 TAATGCTTCTCCAAATTTTCAATGCTTCCAAATTAAGAGCTGTGGAATATGCCAT 599
 Db 728 TTCTGTTTATGATATGCTTTGTGCGACGCAATGGAAGTGTGTTATGATGTG 787
 QY 600 TTCCAGACTCCAGGCTGATTAATGCTTGTGCGACCTTCTGAAGTCTTCAATTCATG 659
 Db 788 GAGCGGGTTGAGGCTGACCTCACTGATGAAGATCTATGACATGAGTGCACAACTG 847
 QY 660 GAAATATTTATCAACTTGTGTGGCAAGATTTTCCCTGAAGTCAATTTTGAATGCT 719
 Db 848 GAAATATTTATCAACTTGTGTGGCAAGATTTTCCCTGAAGTCAATTTTGAATGCT 719
 QY 720 GTCAAGTGAAGAAACTCAATGAGCAAAATATGTGAGACGCTGAACCCCAACG 779
 Db 908 CAGCAGCTCAAGTGTGTAATGAGAGAAAACAACCTGGAACGAGATGATCCCA 967
 QY 780 TAAATGGAAGATTCATTAACATCATGAACCTTAGACGGTGTGCTTAATGATGAGA 839
 Db 968 TAAAGAACAAAGGTGAAGAAAGCCCTATGA-----GATCGTTAATGAAAGCTG-- 1016
 QY 840 GGTACCAATTAAGGCAAACTCTCCAGGAAGACACCCCTCAATCAATTCAGATATTTG 899
 Db 1017 -----ACAAACACAGGAGCTGTCAAAATGCTTCTCACTGAAACACCTCTTTTC 1069
 QY 900 TGGCAGTCTTATTTTGTGTTTAACTGCAAGATTTGTTAATATTTTCAACACTCAT 959
 Db 1070 TGGCAGTCTTATTTTGTGTTTAACTGCAAGATTTGTTAATATTTTCAACACTCAT 959
 QY 960 CGTTCAAGACTTTTGGCTGGCTGATTAAGACATCTCTCTGATGAGCACTTTGGGC 1019
 Db 1130 AATCCAAAGTGTATGAGTGGACACAGACATACAGCTTGATGATCTCTGGGC 1189
 QY 1020 TACCTTGATTCGGGTTCCAGAAATACCTGGGGAGAT--TTCCAGATCAGCCAGAGAT 1076
 Db 1190 CACCATTCAGAGATTCCTGAAGTCCGGGCTCAGCTCCCTCAGCAGCAATAGTATGATCT 1249
 QY 1077 GTCTGATTCGAGATTAAGACTGCGCTTGTCAAGTGAATTAATTAAGAGCTTTT--- 1133
 Db 1250 ATGTGACATGCAAGAGATTCAGAGTGTGTCAAGTGGACATTAAGTTCAGGGTATGTTCC 1309
 QY 1134 -----CTATCCCAAGTTGTACTGATCTCACTTCGAAAGCGTGTATTAAG 1181
 Db 1310 CAAGGTGCTCCCTACCCGCCCTGGAGATGAGTGCATGTGCGCTCATGTGATTTGGC 1369
 QY 1182 AGCTGCAGAATTAAGTGGCTTATCAAGATGACATTTGGTTGTAATTAATTTGATTC 1241
 Db 1370 AGCTGTGACTGAACTGATGCTGGGCAAAACCACTGTGTTGCCAATTAAGTTGACGT 1429
 QY 1242 TAAGTGAACCTATCTGATTAATGCTTGACAGA 1277
 Db 1430 GGAATGTGACCTTGGCATCCAGTGTGGATGA 1466

RESULT 11
US-08-118-906-1
Sequence 1, Application US/08118906
Patent No. 5484590
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
APPLICANT: Biehlhizen, Marti F.A.
TITLE OF INVENTION: Expression of the Developmental I
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,906
FILING DATE: 09-SEP-1993
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-8949
TELEFAX: (619) 535-9001
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..378
US-08-118-906-1

Query Match 8.3%; Score 121.2; DB 1; Length 378;
Best Local Similarity 58.2%; Pred. No. 9.7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

QY 367 CTGTCTCAAGAGGAGGAAAGCTTCCCAATAGCCATCTTGGTTCACCAAGAT 426
DB 13 CTTTATCTAAGAGGAGGAGCTGACTTCCCTTGCAATATTAATGATCACTCATCTGC 72

QY 427 GCAATTATGTTGAAGGCTTATCCATGCTATATACACCAAGCAATATTTACTGCATC 486
DB 73 TTGACACCTTTGGAAGGCTCTCAGGCTATTTAATGACCCAAATATCTACTGT 132

QY 487 CATTAATGCTAAGGACCTGATACCTTCAAGTTCCTCAATGAACATTTAGTAATGC 546
DB 133 CATGTGATGAAAAAGCAACACTGAATTTAAAGATGCGGTAGAGCAACTATTAACTGC 192

QY 547 TTCTCAATATTTTCATGCTTCCCAATTAGAGGCTGTGATATGCCCCAATTTCCAGA 606
DB 193 TTCCCAAGCTTTTCTGCTTCCCAATGAGATGGAACCGTTGTCTATGAGGAGATCTCAG 252

QY 607 CTCAGGCTGATTTAAATTTGCTGTGAGACCTTCTGAAGTCTCAATCCAGTGAATAT 666
DB 253 CTCAGGCTGATCTGAAGCTGATCAAGATCTTCTGCTTCAAGTCTCAATGGAAGTAC 312

QY 667 GTATCAACTTGTGTGGGCAAGATTTTCCCTGAAGTCAATTTTGAATTTGCTGAGAG 726
DB 313 GTATCAACACCTGTGGGCAAGACTTCCCTGTAAACCAAGCAAGGAATAGTTCAAT 372

RESULT 12
US-08-486-196-1
Sequence 1, Application US/08486196
Patent No. 5731420
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
APPLICANT: Biehlhizen, Marti F.A.
TITLE OF INVENTION: Expression of the Developmental I
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,196
FILING DATE: 09-SEP-1993
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906
FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 378 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 1..378
US-08-486-196-1

Query Match 8.3%; Score 121.2; DB 1; Length 378;
Best Local Similarity 58.2%; Pred. No. 9.7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

QY 367 CTGTCTCAAGAGGAGGAAAGCTTCCCAATAGCCATCTTGGTTCACCAAGAT 426
DB 13 CTTTATCTAAGAGGAGGAGCTGACTTCCCTTGCAATATTAATGATCACTCATCTGC 72

QY 427 GCAATTATGTTGAAGGCTTATCCATGCTATATACACCAAGCAATATTTACTGCATC 486
DB 73 TTGACACCTTTGGAAGGCTCTCAGGCTATTTAATGACCCAAATATCTACTGT 132

QY 487 CATTAATGCTAAGGACCTGATACCTTCAAGTTCCTCAATGAACATTTAGTAATGC 546
DB 133 CATGTGATGAAAAAGCAACACTGAATTTAAAGATGCGGTAGAGCAACTATTAACTGC 192

QY 547 TTCTCAATATTTTCATGCTTCCCAATTAGAGGCTGTGATATGCCCCAATTTCCAGA 606

Db 193 TTCCCAAGCGCTTTCTGCGTTCCAGATGAAACCCGTTGTCTATGAGAGGATCTCCAG 252
QY CTCAGGCTGATTAATTCCTTGTCGACCTTCTGAGTCTTCAATCCAGTGAATAAT 666
Db 253 CTCAGGCTGACCTGAACTGATCAGATGATCTTCTGCTGAGGTCATGAAATAC 312
QY 667 GTTATCACTTGTGTGGGCAAGATTTTCCCTGAAATCAATTTGAAATGGTGTCAAG 726
Db 313 GTTATCAACACCTGTGGGCAAGACTTCCCTGAAACCAAGAAATAGTTCAGTAT 372
QY 727 TTGAAA 732
Db 373 CTGAAA 378
RESULT 13
US-08-488-135-1
; Sequence 1, Application US/08488135
; Patent No. 5766910
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESS: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,135
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..378
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Best Local Similarity 58.2%; Pred. No. 9,7e-24;
Matches 213; Conservative 0; Mismatches 153; Indels 0; Gaps 0;

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QY CTCAGGCTGATTAATTCCTTGTCGACCTTCTGAGTCTTCAATCCAGTGAATAAT 666
Db 253 CTCAGGCTGACCTGAACTGATCAGATGATCTTCTGCTGAGGTCATGAAATAC 312
QY 667 GTTATCACTTGTGTGGGCAAGATTTTCCCTGAAATCAATTTGAAATGGTGTCAAG 726
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QY 727 TTGAAA 732
Db 373 CTGAAA 378

RESULT 14
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; Sequence 1, Application US/08474065
; Patent No. 5830465
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESS: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,065
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 378 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..378
US-08-474-065-1

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 31, 2004, 14:13:05 ; Search time 524 Seconds

(without alignments)
9473.065 Million cell updates/sec

Title: US-10-084-406-1

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Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 2434939 segs, 1822278265 residues

Total number of hits satisfying chosen parameters: 4869878

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	1362	100.0	1362	US-09-793-998-10	Sequence 10, Appl.1
4	949	69.7	1366	US-09-793-998-7	Sequence 7, Appl.1
5	312.6	23.0	1366	US-09-793-998-1	Sequence 1, Appl.1
6	131.8	14.1	1221	US-09-797-207-12	Sequence 12, Appl.1
7	131.8	14.1	1317	US-09-797-207-1	Sequence 1, Appl.1
8	131.8	14.1	1317	US-10-388-307-14	Sequence 14, Appl.1
9	131.8	14.1	1317	US-10-084-406-14	Sequence 14, Appl.1
10	131.8	14.1	2108	US-09-797-207-3	Sequence 3, Appl.1
11	131.8	14.1	2147	US-09-981-353-43	Sequence 43, Appl.1
12	131.8	14.1	2229	US-09-925-397-337	Sequence 337, Appl.1
13	131.8	14.1	2236	US-10-106-698-1555	Sequence 1555, Appl.1
14	131.8	14.1	2319	US-09-874-390-1	Sequence 1, Appl.1
15	185.2	13.6	1203	US-10-388-307-16	Sequence 16, Appl.1

16	185.2	13.6	1203	US-10-084-406-16	Sequence 16, Appl.1
17	175.8	12.9	1314	US-09-797-207-19	Sequence 19, Appl.1
18	172	12.6	1287	US-10-388-307-12	Sequence 12, Appl.1
19	172	12.6	1287	US-10-084-406-12	Sequence 12, Appl.1
20	172	12.6	2110	US-09-962-832-123	Sequence 123, Appl.1
21	172	12.6	2110	US-09-954-456-737	Sequence 737, Appl.1
22	161.6	11.9	2109	US-09-797-207-13	Sequence 13, Appl.1
23	147	10.8	549	US-10-029-386-4453	Sequence 4453, Appl.1
24	138.6	10.2	361	US-10-029-386-18153	Sequence 18153, Appl.1
25	117.2	8.6	408	US-09-918-995-3027	Sequence 3027, Appl.1
26	108.4	8.0	527	US-10-029-386-2317	Sequence 2317, Appl.1
27	80.8	5.9	997	US-09-809-391-307	Sequence 307, Appl.1
28	80.8	5.9	997	US-09-882-171-307	Sequence 307, Appl.1
29	71.2	5.2	2854	US-10-108-260A-2321	Sequence 2321, Appl.1
30	69	5.1	471	US-09-998-596-1060	Sequence 1060, Appl.1
31	64.4	4.7	173	US-10-029-386-16017	Sequence 16017, Appl.1
32	50.6	3.7	306	US-09-878-178-940	Sequence 940, Appl.1
33	50.6	3.7	306	US-09-878-178-2116	Sequence 2116, Appl.1
34	50.6	3.7	306	US-10-046-935-940	Sequence 940, Appl.1
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37	50.6	3.7	306	US-10-146-502-2116	Sequence 2116, Appl.1
38	50.6	3.7	306	US-10-060-036-1983	Sequence 1983, Appl.1
39	49.4	3.6	777	US-09-809-391-181	Sequence 181, Appl.1
40	49.4	3.6	777	US-09-882-171-181	Sequence 181, Appl.1
41	48.8	3.6	404	US-09-814-353-18915	Sequence 18915, Appl.1
42	48.8	3.5	285	US-09-814-353-21954	Sequence 21954, Appl.1
43	43	3.2	1944	US-09-815-242-9244	Sequence 9244, Appl.1
44	41.8	3.1	497	US-10-027-632-3021	Sequence 3021, Appl.1
45	41.8	3.1	497	US-10-027-632-3021	Sequence 3021, Appl.1

ALIGNMENTS

RESULT 1	US-10-388-307-1	US-10-084-406-1
Sequence 1, Application US/10388307		
Publication No. US20030180778A1		
GENERAL INFORMATION:		
APPLICANT: Schiuentek, Tilo		
TITLE OF INVENTION: UDP-N-Acetylglucosamine:		
TITLE OF INVENTION: Galactose-6-epimerase, N-Acetylglucosamine-6-phosphate-1-phosphotransferase, C2GNT3		
FILE REFERENCE: 4503/1G031		
CURRENT FILING DATE: 2003-03-13		
PRIOR FILING DATE: 2000-08-24		
PRIOR FILING DATE: 1999-08-24		
PRIOR APPLICATION NUMBER: US 60/150,488		
NUMBER OF SEQ ID NOS: 17		
SOFTWARE: FastSeq for Windows Version 3.0		
SEQ ID NO 1		
LENGTH: 1362		
TYPE: DNA		
ORGANISM: Human		
US-10-388-307-1		
Query Match	100.0%; Score 1362; DB 13; Length 1362;	
Best Local Similarity	100.0%; Pred. No. 0;	
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		0; Gaps
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DB	1 ATGAAGATTCATGATGTTATTTTAAACATCCCTTACGCGAAGAGTTTCACTGCTTT	60
QY	61 TTAACCATGAGCTGCTCTCTTTGTTAAGCTTTAATGTGAGACGACTCTTCCGCA	120
DB	61 TTAACCATGAGCTGCTCTCTTTGTTAAGCTTTAATGTGAGACGACTCTTCCGCA	120
QY	121 AAAGCATTTACTGTTGAGTACTCCTTAAGTACTGCTTTGTTGAAGAAAGATAC	180

Dp	121	AAAGACATTA	ACTGTTGAGTACTCCCTAAGTACCTGCGCTTTGTAAAGAACAGTAC	180
Qy	181	ACTGATGTTA	AGATGATGACGGTATGAAATTACTGTTGCGTATCTATGAAACAGAG	240
Dp	181	ACTGATGTTA	AGATGATGAGTTAGGTATGAGTTACTGTTGCGGTATCTATGAAACAGAG	240
Qy	241	CCTTTGGAAAT	TGAAAAGAGTCTGGAATAAAGAAAGAGGACATCATTTGACTTGAGAGAT	300
Dp	241	CCTTTGGAAA	TGGAAAAGCTGTGAAAATAAGAAAGGAGACATCATTTGACTTGAGAGAT	300
Qy	301	GATGATGTTG	GGAATGACCAAGTATGTGACATTTATCAGACTCTAAGAGTTAGT	360
Dp	301	GATGATGTTG	GGAATGACCAAGTATGTGACATTTATCAGACTCTAAGAGTTAGT	360
Qy	361	CAAAAGCTTG	CTCAAGAGAGAAAAGCTTCCCAATAGCTATTTCTTTGGTTGTCCAC	420
Dp	361	CAAAAGCTTG	CTCAAGAGAGAAAAGCTTCCCAATAGCTATTTCTTTGGTTGTCCAC	420
Qy	421	AAAGATGCAAT	TATGATGTTGAAAGGCTTATCCATGCTATATPACAACAGACAAATATTAC	480
Dp	421	AAAGATGCAAT	TATGATGTTGAAAGGCTTATCCATGCTATATPACAACAGACAAATATTAC	480
Qy	481	TGCATCCATTA	TGATGATCGTAAGGCACTGTATCCTTCAAAGTTGSCATGAACAATTAGCT	540
Dp	481	TGCATCCATTA	TGATGATCGTAAGGCACTGTATCCTTCAAAGTTGSCATGAACAATTAGCT	540
Qy	541	AAGGCTCTCC	CAATATTTTCATATGCTTCCAAATTAGAGGCTGGAATATGCCACAT	600
Dp	541	AAGGCTCTCC	CAATATTTTCATATGCTTCCAAATTAGAGGCTGGAATATGCCACAT	600
Qy	601	TCCAGACTCC	AGGCTGATTTAAATTTGCTTTCGAGCTTTCGAAGTCTTCATCCAGTGG	660
Dp	601	TCCAGACTCC	AGGCTGATTTAAATTTGCTTTCGAGCTTTCGAAGTCTTCATCCAGTGG	660
Qy	661	AAATATGTTA	TCAACTTGTGTGGGCAAGATTTTCCCTGGAAGTCAATTTTGAATTGGTG	720
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Dp	841	CTACCAATAA	GAGACAAATCATCTCCCAAGAGACACCCCCCAATACATTCAGATTTGGT	900
Qy	901	GGAAGTGTTA	TTTATTTAAGTCACAGCAATTTGTTAAATATATTTTCAACAATCCATC	960
Dp	901	GGAAGTGTTA	TTTATTTAAGTCACAGCAATTTGTTAAATATATTTTCAACAATCCATC	960
Qy	961	GTTCAAGACT	TTTTTGGCTGTCTTAAACAATCTCTCGATGAGGCACTTTTGGGCT	1020
Dp	961	GTTCAAGACT	TTTTTGGCTGTCTTAAACAATCTCTCGATGAGGCACTTTTGGGCT	1020
Qy	1021	ACCTTGATTC	GGGTTCCAGGAATACCTGGGAGGATTTTCAATACAGCCCAAGATGTGCT	1080
Dp	1021	ACCTTGATTC	GGGTTCCAGGAATACCTGGGAGGATTTTCAATACAGCCCAAGATGTGCT	1080
Qy	1081	GATTCGACAG	AGTAACCTCGCTTGTCAAGTGAATATCTAAGAGGCTTTTCTATCC	1140
Dp	1081	GATTCGACAG	AGTAACCTCGCTTGTCAAGTGAATATCTAAGAGGCTTTTCTATCC	1140
Qy	1141	AGTTTACTG	ATCTCACCTTCGAAGCGTGTATTTATGAGGCTGCAGATTAAGGTGG	1200
Dp	1141	AGTTTACTG	ATCTCACCTTCGAAGCGTGTATTTATGAGGCTGCAGATTAAGGTGG	1200
Qy	1201	CTTATCMAAG	ATGACATTTGTTGCTATTAATTTGATCTTAAGGTGACCCCTATCTTG	1260

Db	1201	CTTATCAAGATGAGACATTGTTTGGTAAATTAATTTGATCTTAAGTGGACCTTACTTG	1260
Qy	1261	ATTAAATGCTTGGCAGAAAAGCTTTGAAGAACGACAGAGACTGGATCACTTTGGCCCTCA	1320
Db	1261	ATTAAATGCTTGGCAGAAAAGCTTTGAAGAACGACAGAGACTGGATCACTTTGGCCCTCA	1320
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Db	1321	GAAAAGTTATTATTTGATGAGTAAATCTCATTACACATCATGA	1362

RESULT 2
US-10-084-406-1
Sequence 1, Application US/10084406
Publication No. US20030054525A1
GENERAL INFORMATION:
APPLICANT: Schwiientek, Tilo
APPLICANT: Clausen, Henrik
TITLE OF INVENTION: UPD-N-Acetylglucosamine:
TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglactosamine-alpha-R / (GLNAC
TITLE OF INVENTION: to GalNAc) beta1,6-N-Acetylglucosaminyltransferase, C2GNT3
FILE REFERENCE: 4503/1G031
CURRENT APPLICATION NUMBER: US/10/084,406
CURRENT FILING DATE: 2002-02-25
PRIOR APPLICATION NUMBER: 09/645,192
PRIOR FILING DATE: 2000-08-24
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1
LENGTH: 1362
TYPE: DNA
ORGANISM: Human
US-10-084-406-1

Query Match	100.0%;	Score 1362;	DB 15;	Length 1362;
Best local similarity	100.0%;	Pred. No. 0;		
Matches 1362;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

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Qy	61	TTAACCCATGGGCGCTCCTCTTTGTTTAAAGCTCTTAATGTGAGAGCACTCTTCCGCAA	120
Db	61	TTAACCCATGGGCGCTCCTCTTTGTTTAAAGCTCTTAATGTGAGAGCACTCTTCCGCAA	120
Qy	121	AAAGACATTTACTGTTGAGTACTCCCTTAAGTACTCGCTTTGTAAAGAAACAGATAC	180
Db	121	AAAGACATTTACTGTTGAGTACTCCCTTAAGTACTCGCTTTGTAAAGAAACAGATAC	180
Qy	181	ACTCATGTTAAGATGAAAGTCAGGTATGAAGTAACTGTCGGGTATCTATGAACAGAGAG	240
Db	181	ACTCATGTTAAGATGAAAGTCAGGTATGAAGTAACTGTCGGGTATCTATGAACAGAGAG	240
Qy	241	CCTTTGGAAATTTGGAAAGAGCTGCAAAATTAAGAAAGAGACATCATTTGACTTGAAGAT	300
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Qy	301	GATGATGTTGTGGCAATGACCAAGATTTGTGACATTTATTAAGACTCTAAGAGGTTATGGCT	360
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Qy	361	CAAAAGCTTGCTCAAAAGAGAGAGAAAAGCTTCCCAATAGCCTATTCTTTGGTGTCCAC	420
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QY	541	AAAGGCTTCCCAATATTTTCATTCGTCCAAAATTAGAGCTGGGAATATGGCCACATT	600
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QY	661	AAATATGTTATCAACTTGTGTGGGCAAGATTTTCCCTGAAGTCAAAATTTGAATTGGTG	720
Db	661	AAATATGTTATCAACTTGTGTGGGCAAGATTTTCCCTGAAGTCAAAATTTGAATTGGTG	720
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QY	841	CTACCAATTAAGAGCAAAATCTCCAGAGAACACCCCCCATPAACATTCAGATATTTGTT	900
Db	841	CTACCAATTAAGAGCAAAATCTCCAGAGAACACCCCCCATPAACATTCAGATATTTGTT	900
QY	901	GGCAGTGTATTTTGTGTTTAAGTCAGACATTTGTAAATATTTTCAACAACTCCATC	960
Db	901	GGCAGTGTATTTTGTGTTTAAGTCAGACATTTGTAAATATTTTCAACAACTCCATC	960
QY	961	GTTCAAGACTTTTGTGCTGTCAAAGACACATACCTCCTGATGAGCACTTTTGGGCT	1020
Db	961	GTTCAAGACTTTTGTGCTGTCAAAGACACATACCTCCTGATGAGCACTTTTGGGCT	1020
QY	1021	ACCTTGATTCGGGCTTCCAGAAATCTGGGGAATTTCAATCAAGCCCAAGATGTCTCT	1080
Db	1021	ACCTTGATTCGGGCTTCCAGAAATCTGGGGAATTTCAATCAAGCCCAAGATGTCTCT	1080
QY	1081	GATCGCAGAGTAAGACTCGCCCTGTCAAGTGAATTCATGAAAGCTTTTCTATCCC	1140
Db	1081	GATCGCAGAGTAAGACTCGCCCTGTCAAGTGAATTCATGAAAGCTTTTCTATCCC	1140
QY	1141	AGTGTACTGGAATCTCACCTTCGAAGCGTGTGATTTATGAGCTGCGAATTTAAGGTGG	1200
Db	1141	AGTGTACTGGAATCTCACCTTCGAAGCGTGTGATTTATGAGCTGCGAATTTAAGGTGG	1200
QY	1201	CTTATCAAGATGACATTTGGTTTGTCTAATAAATTGATCTAAGGTGAGACCTTATCTTG	1260
Db	1201	CTTATCAAGATGACATTTGGTTTGTCTAATAAATTGATCTAAGGTGAGACCTTATCTTG	1260
QY	1261	ATTAATGCTTGGCAAAAAGCTTAAAGAACGCAAGAGACTGGATCACTTGGCTTCA	1320
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US-09-793-998-10			
Sequence 10, Application US/09793998			
Patent No. US2020045202A1			
GENERAL INFORMATION:			
APPLICANT: KORCZAK, BOZENA			
APPLICANT: LEW, APRIL			
TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE			
FILE REFERENCE: GLYCO-16			
CURRENT APPLICATION NUMBER: US/09/793,998			
CURRENT FILING DATE: 2001-02-28			
PRIOR APPLICATION NUMBER: 60/185,702			
PRIOR FILING DATE: 2000-02-29			
NUMBER OF SEQ ID NOS: 11			

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; SOFTWARE:PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3435
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-793-998-10

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1362; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY      61  TTAACCCATGAGCGCTCTCTTTGTAAAGCTTCAATGTGAGACGACTCTTCCGCA 120
DB      922  TTAACCCATGAGCGCTCTCTTTGTAAAGCTTCAATGTGAGACGACTCTTCCGCA 981
QY      121  AAAGCATTATCTTGTTGAGTACTCCTTAAGTACCTGCTTTTGTAAAGAACAGATAC 180
DB      982  AAAGCATTATCTTGTTGAGTACTCCTTAAGTACCTGCTTTTGTAAAGAACAGATAC 1041
QY      181  ACTCATGTAAAGATGAAGTCAAGGATGAAGTTAACTGTGCGGTATCTATGACAGAG 240
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QY      301  GATGATGTTTGCGCAATGACGATGTGTACATTTTACGACTCTAAGAGGTATGCT 360
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DB      1222  CAAAAGCTTGCTCAAGAGAGAGAAAGCTTCCCAATAGCTTATCTTTGGTTGTCAC 1281
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QY      481  TGCATCCATTAATGATCGTAAAGGACCTGTAACCTTCAAGTGGCCATGACATTTAGCT 540
DB      1342  TGCATCCATTAATGATCGTAAAGGACCTGTAACCTTCAAGTGGCCATGACATTTAGCT 1401
QY      541  AAGTCTTCTCCAAATATTTTCATTGCTTCCAAATTAAGGCTGTGGAATATGCCCATAT 600
DB      1402  AAGTCTTCTCCAAATATTTTCATTGCTTCCAAATTAAGGCTGTGGAATATGCCCATAT 1461
QY      601  TCCAGATCCAGGCGTATTTAATGCTGTGCGACCTCTGAAGCTTCAATCCAGTGG 660
DB      1462  TCCAGATCCAGGCGTATTTAATGCTGTGTGCGACCTCTGAAGCTTCAATCCAGTGG 1521
QY      661  AAATATGTTATCACTGTGTGCGGCAAGTTTCCCTGAAGTCAATTTTGAATTGGTGG 720
DB      1522  AAATATGTTATCACTGTGTGCGGCAAGTTTCCCTGAAGTCAATTTTGAATTGGTGG 1581
QY      721  TCGAGTTGAAAAAATCTAATGAGCAATATGTTGGAACGGTGAACCCCAACAGT 780
DB      1582  TCGAGTTGAAAAAATCTAATGAGCAATATGTTGGAACGGTGAACCCCAACAGT 1641
QY      781  AAATGGAAGATTCACCTTACCATCATGATGAACGGGTGCTTATGAATATGTGAAG 840
DB      1642  AAATGGAAGATTCACCTTACCATCATGATGAACGGGTGCTTATGAATATGTGAAG 1701
QY      841  CTAACCAATTAAGCAAAACATCTCCACAGAAAGACCCCAATTAACCTTGAATATTGTT 900
DB      1702  CTAACCAATTAAGCAAAACATCTCCACAGAAAGACCCCAATTAACCTTGAATATTGTT 1761
QY      901  GGAGAGCTTATTTGTTTAAGTCAAGATTTGTTAAATATATTTTCAACAATCCATC 960

```


Db 1762 GGACGCTCTATTGTTGTTAAAGTCAAGACCTTGTAAATATATTTTCAACTCCATC 1821
Qy 961 GTTCAAGACTTTTTCCTGCTGATCTCTCTGATGAGACCTTTTGAGCT 1020
Db 1822 GTTCAAGACTTTTTCCTGCTGATCTCTCTGATGAGACCTTTTGAGCT 1881
Qy 1021 AACTGATGCTGGGCTTCCAGGATACCTGGGAGATTTCCAGTCCAGGATGCT 1080
Db 1882 AACTGATGCTGGGCTTCCAGGATACCTGGGAGATTTCCAGTCCAGGATGCT 1941
Qy 1081 GATCTGAGAGTAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
Db 1942 GATCTGAGAGTAAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2001
Qy 1141 AGTTGATCTGATCTCTCACTTCTGAGAGCTGCTGCTGCTGCTGCTGCTGCT 1200
Db 2002 AGTTGATCTGATCTCTCACTTCTGAGAGCTGCTGCTGCTGCTGCTGCTGCT 2061
Qy 1201 CTATCAAGAGTGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1260
Db 2062 CTATCAAGAGTGAAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2121
Qy 1261 ATTTAAATGCTTGGGAGAAAGCTTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
Db 2122 ATTTAAATGCTTGGGAGAAAGCTTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 2181
Qy 1321 GAAAGTATTTATGATGAAATCTCACTACACATCATGA 1362
Db 2182 GAAAGTATTTATGATGAAATCTCACTACACATCATGA 2223

RESULT 4

US-09-793-998-7 ; Sequence 7, Application US/09793998
; Patent No. US20020045202A1
; GENERAL INFORMATION:
; APPLICANT: LEM, APRIL
; APPLICANT: KORCZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGALYOSAMINYLTRANSFERASE
; TITLE OF INVENTION: GENE
; FILE REFERENCE: GLYCO-16
; CURRENT APPLICATION NUMBER: US/09/793,998
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,702
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 1368
; TYPE: DNA
; ORGANISM: Mus sp.
US-09-793-998-7

Query Match 69.7%; Score 949; DB 5; Length 1368;
Best Local Similarity 81.5%; Pred. No. 3,9e-261;
Matches 1112; Conservative 0; Mismatches 250; Indels 3; Gaps 1;

Qy 1 ATGAAGATATTCAGATGTTTATTTAAACATACCTTCAAGAGAAAGTTTCAATCTGTT 60
Db 1 ATGAAGATATTCAGATGTTTATTTAAATACATCTTCAAGAGAAATCTTCAATCTCTC 60
Qy 61 TTAACCTATGAGTGTCTCTCTTTTAAAGCTTCTAAATGTG---AGAGACTCTTTTCCG 117
Db 61 TTAACCTATGAGTGTCTCTCTTTTAAAGCTTCTAAATGTG---AGAGACTCTTTTCCG 120
Qy 118 CAAGAGACATTTACTGTTGTTAGTACCTCCCTAAGACCGGCTTTTAAAGAAACGA 177
Db 121 CAAGAGACATTTACTGTTGTTAGTACCTCCCTAAGACCGGCTTTTAAAGAAACGA 180
Qy 178 TACACTATGTTAAGATGAAGTCAAGTATGAAGTTAAGTTTCCGCTTCTAATGAACG 237
Db 181 TTCCCGAGTCTGGGAGATGACGACGAGGACAAAGTTAAGTCTGGGAGGCTTACAGGAC 240

Qy 238 GACCTTTGGAAATTGGAAAGAGTCTGGAATTAAGAGAGGACATCTTGAATGAG 297
Db 241 GACCTTTGGAAATTGGAAAGAGTCTGGAATTAAGAGAGGACATCTTGAATGAG 300
Qy 298 GATGATGATGTTTGGCAATGACCAAGATGTTGACATTTATCAAGCTTAAAGATTAT 357
Db 301 GATGATGATGTTTGGCAATGACCAAGATGTTGACATTTATCAAGCTTAAAGGAGTAC 360
Qy 358 GCTCAAAAGCTTGTCTCAAGAGAGAAAGCTTCCCAATAGCTTATCTTTGGTGTG 417
Db 361 CATGAAAGCTGTTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
Qy 418 CACAAAGATCAATTTAGGTTGAAAGCTTATCAATGCTATATATACACAGACAAATAT 477
Db 421 CACAAAGATCAATTTAGGTTGAAAGCTTATCAATGCTATATATACACAGACAAATAT 480
Qy 478 TACTGATCCATTAATGATGTAAGGACCTGATACCTTCAAGTTGCCATGAACATTTA 537
Db 481 TACTGATCCATTAATGATGTAAGGACCTGATACCTTCAAGTTGCCATGAACATTTA 540
Qy 538 GCTAAGGCTTCCCAATATTTTCAATGCTTCCCAATTAAGAGGCTGATATGAGCCAC 597
Db 541 GCTAAGGCTTCCCAATATTTTCAATGCTTCCCAATTAAGAGGCTGATATGAGCTAC 600
Qy 598 ATTTCAAGCTCCAGGCTGATTTAAATGCTTGTGAGAGCTTGTGAAGTCTTCAATCCG 657
Db 601 ATATCAAGGCTCCAGGCTGATTTAAATGCTTGTGAGAGCTTGTGAAGTCTTCAATCCG 660
Qy 658 TGGAAATATGTTTCAACTGTTGTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 717
Db 661 TGGAAATATGTTTCAACTGTTGTTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
Qy 718 GTGTCAAGATTTGAAAAAATCAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 777
Db 721 GTGTCAAGATTTGAAAAAATCAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
Qy 778 AGTAAATGGAAGATTTCACTTCAATCAATGAACTTGAAGAGAGAGAGAGAGAGAG 837
Db 781 AGTAAATGGAAGATTTCACTTCAATCAATGAACTTGAAGAGAGAGAGAGAGAGAG 840
Qy 838 AAGCTACCAATTAAG 897
Db 841 AAGCTACCAATTAAG 900
Qy 898 GTTGGAGAGCTTATTTGTTTAAAGTCAAGCTTTTAAATATATTTTCAAGAGAG 957
Db 901 GTTGGAGAGCTTATTTGTTTAAAGTCAAGCTTTTAAATATATTTTCAAGAGAG 960
Qy 958 ATGCTCAAGACTTTTGTGCTGCTGCTTAAAGAGAGAGAGAGAGAGAGAGAGAGAG 1017
Db 961 ATGCTCAAGACTTTTGTGCTGCTGCTTAAAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
Qy 1018 GCTACCTTGAATGAGGTTCCAGAGATACCTGGGAGATTTCCAGAGAGAGAGAGAG 1077
Db 1021 GCTACCTTGAATGAGGTTCCAGAGATACCTGGGAGATTTCCAGAGAGAGAGAGAG 1080
Qy 1078 TCTGATCTGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1137
Db 1081 TCTGATCTGAGAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1140
Qy 1138 CCCAGTTGATCTGATCTCACTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1197
Db 1141 CCCAGTTGATCTGATCTCACTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1200
Qy 1198 TGGCTTATCAAG 1257
Db 1201 TGGCTTATCAAG 1260
Qy 1258 TTGATTTAAATGCTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1317
Db 1261 TTGATTTAAATGCTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1320
Qy 1318 TCAGAAAGTATTTATGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1362

DB 1321 TCAGAGAGCTTCATGACAGAGGAAACCCGCCAAGCCACACATTTA 1365

RESULT 5

US-09-793-998-1
; Sequence 1, Application US/09793998
; Patent No. US20020045202A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; APPLICANT: JEM, APRIL
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; FILE REFERENCE: GUYCO-16
; CURRENT APPLICATION NUMBER: US/09/793,998
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,702
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 717
; TYPE: DNA
; ORGANISM: Unknown Sequence
; FEATURE:
; OTHER INFORMATION: Description of Unknown Sequence: DNA sequence of human or
; OTHER INFORMATION: mouse core 2c
; NAME/KEY: modified_base
; LOCATION: (177)
; OTHER INFORMATION: a, t, c, g, other or unknown
; NAME/KEY: modified_base
; LOCATION: (675)
; OTHER INFORMATION: a, t, c, g, other or unknown
US-09-793-998-1

Query Match 23.0%; Score 312.6; DB 9; Length 717;
Best Local Similarity 87.2%; Pred. No. 8.7e-79;
Matches 342; Conservative 0; Mismatches 50; Indels 0; Gaps 0;

QY 892 ATATTTGTTGGCAGTCTTATTTGTTTAACTCAAGCATTTGTTAAATATTTTCAAC 951
DB 1 ATATTTGTTGGCAGTCTTATTTGTTTAACTCAAGCATTTGTTAAATATTTTCAAC 60
QY 952 AACCTCATGCTCAAGACCTTTTGGCTGCTAAAGACACATCTCCCTGATAGAC 1011
DB 61 AACCTCATGCTCAAGACCTTTTGGCTGCTAAAGACACATCTCTCTGATAGAC 120
QY 1012 TTTGGGCTACCTTGAATTCGGGTTCCAGGATACCTGGGAGATTTCCAGATCAGCCAG 1071
DB 121 TTTGGGCTACCTTGAATTCGGGTTCCAGGATACCTGGGAGATTTCCAGATCAGCCAG 180
QY 1072 GATGCTCTGATCTGAGAGTAAGACTCGCTTGTCAATGATTAATCAAGAGCTTT 1131
DB 181 GATGCTCTGATCTGAGAGTAAGACTCGCTTGTCAATGATTAATCAAGAGCTTT 240
QY 1132 TTCTATCCAGTGTACTGATCTCACTTCCAGAGCTGTATTTATGAGAGCTCAGAA 1191
DB 241 TTCTATCCAGTGTACTGATCTCACTTCCAGAGCTGTATTTATGAGAGCTCAGAA 300
QY 1192 TTAAGTGGCTTATCAAAATGAGCACTTGTGTTGCTAATTAATTTGATTTCAAGTGAAC 1251
DB 301 TTAAGTGGCTTATCAAAATGAGCACTTGTGTTGCTAATTAATTTGATTTCAAGTGAAC 360
QY 1252 CCTATCTGATTAATGCTTGGAGAAAGCT 1283
DB 361 GAAATGCTCTTCAAGTCTTAGAGAAATACCT 392

RESULT 6
US-09-797-207-12
; Sequence 12, Application US/09797207
; Patent No. US2002008563A1
; GENERAL INFORMATION:

APPLICANT: KORCZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; FILE REFERENCE: GUYCO-7P1
; CURRENT APPLICATION NUMBER: US/09/797,207
; CURRENT FILING DATE: 2001-03-02
; EARLIER APPLICATION NUMBER: 09/495,913
; EARLIER FILING DATE: 2000-02-02
; EARLIER APPLICATION NUMBER: 60/118,674
; EARLIER FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 1221
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
; OTHER INFORMATION: DNA
US-09-797-207-12

Query Match 14.1%; Score 191.8; DB 9; Length 1221;
Best Local Similarity 52.5%; Pred. No. 5.3e-44;
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACCACTGATGTGACATTTATCAGACTCTTAAGAGTTATGCTCAAAAGCTTGTCTCA 376
DB 221 TCACCAAGAGCTGTGACACTTCAAGCTGAAGAGTTCAATACAGTTCCCACTAGCA 280
QY 377 AGGAGAGAAAGCTTCCCAATAGCCTATCTTGTGTTGCCAAGAGATTAATGAG 436
DB 281 AAGAGAGGTGAGATTCCTATTCATCTATGAGTATGATTCATGAGAGATTTGAAACT 340
QY 437 TTGAAGGCTTATCAGATCTATATACACACAGCAATATTTATGATCATTAATGATC 496
DB 341 TTGAAGGCTTATCAGATCTATATACACACAGCAATATTTATGATCATTAATGATC 400
QY 497 GTAAGGACCTGATCTTCAAGTGGCAGTGAACATTTAGTATGCTTCTCCAAATG 556
DB 401 AGAAGTCCCAAGAACTTCAAGAGCGGCTCAAGCAATATTTCTGCTCCCAATG 460
QY 557 TTTTCAATGCTTCAATTAAGAGCTGTGAAATATGCCACATTTCCAGACTCAGAGCTG 616
DB 461 TCTTCAATGAGCAATTAAGAGCTGTGAAATATGCCACATTTCCAGACTCAGAGCTG 520
QY 617 ATTTAAATGCTTGTGAGACCTTCTGAAGCTTTCAATCCAGTGAATATGTTATCACT 676
DB 521 ACCTCACTGATGAGAAAGCTTCTCAGAGCTCAGTGCCTGGAATATCTTCTGGAATA 580
QY 677 TGTGTGGCAAGATTTTCCCTGAGATCAATTTTAATTTGGTGTGAGATTAAGAAAC 736
DB 581 CATGTGGAGAGACTTCTCTATTAAGAGCAATGAGATGATGCTCAGAGCTCAGATG 640
QY 737 TCAATGAGCAATATATGTTGAGAGCGGTGAACCCCAACAGTAATTTGAGAAAGTTCA 796
DB 641 TGAATGAGAGCAATATGATGAGATGAGATGAGATGAGATGAGATGAGATGAGATG 700
QY 797 CTTACCAATGAGCAATTAAGAGCGGTGCTTATGATTAATGAGCAATTAAGAGCA 856
DB 701 AATATCACTTTGAGAGTATGAGAGCAATTAAC-----CTAACCA 742
QY 857 ACATCTCCAG 916
DB 743 ACAAG 802
QY 917 TTTTAAGTCAAGATTTGTTAAATATTTTCAACAAGCTCAAGCTTCAAGCTTTTGG 976
DB 803 TGGCTTCCAGAGATTTGTTCAAGATTTTGAAGAGAGAGAGAGAGAGAGAGAGAGAG 862
QY 977 CTTGCTTAAAGACATATCTCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1036
DB 863 AATGGTAAAGACATATTAAG 922

Best Local Similarity 52.5%; Pred. No. 5.6e-44;
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACAGTGAATTGATCATTTATCAGACTCTAAGAGGTATGCTCAAAAGCTTGTCTCA 376
Db 317 TCACAGAGACTGTGAGCACTTCAAGCTGAAAGAAAGTTCATACGTTCCACGTGAGCA 376
QY 377 AGAGAGAAAGAACTTCCCAATGCTTCTTGTGTTCCCAAAAGTGCATTAATG 436
Db 377 AAGAAGAGGTGAGGTTCCCTATGTCATCTATGATGATTCATGGAAGATTGAAC 436
QY 437 TTGAAGGCTTATCATGCTATATATACACAGACATATTTACTCATCATTTATGATC 496
Db 437 TTGAAGGCTTATCATGCTATATATACACAGACATATTTACTCATCATTTATGATC 496
QY 497 GTAAAGCACTGATACCTTCAAAAGTTCAGTGAACATTTAGTAAAGCTTCTCCATA 556
Db 497 AGAAGTCCCGAAGAACTTCAAAAGGCGGTCAAGCAATTAATTTCTTCCCAATG 556
QY 557 TTTTCATGCTTCCAAATTAGAGGCTGTGGAATATGCCACATTTCCAGACTCCAGGCTG 616
Db 557 TCTTCATAGCCAGTAACTGCTGTGCGGTGTATGCTTCTGTCTCCAGGTGCAAGCTG 616
QY 617 ATTAAATGCTGTGCGACCTTCTGAAGTCTTCAATCCAGTGAATAATGTTATCACT 676
Db 617 ACCTCACTGCTGAAGAACTTGTCTCCAGAGCTCAGTCCGTGAATATCTTCTGAATA 676
QY 677 TGTGTGGGCAAGATTTTCCCTGAAGTCAATTTGAATTGAGTGTGAGTGAAGAAAC 736
Db 677 CATGTGGAGCGACTTCTTAATAAGCAATGCAAGATGATGCCAGGCTTCAAGATGT 736
QY 737 TCAATGAGCAAAATATGTTGAGACGAGTGAACCCCAACAGTAAATGGAAGATCA 796
Db 737 TGAATGGAGAAATAGATGAGAGAGAGTACCTCTTAAGCAGAAAGAAACCCGCTGA 796
QY 797 CTTAACCTCATGAACTTGAAGGAGTGTCTATGATATGTAAGTCAACATTAAGACA 856
Db 797 AATATCACTTGAAGTGTGAGAGACATTAAC-----CTAACCA 838
QY 857 ACATCTCAAGAGAGACACCCCAATCACTCATGATATTTGTTGGCAGTCTTATTTTG 916
Db 839 ACAAGAGAAAGATCCCTCCCTTAATTAATTAATTAATTAATTAATTAATTAATTA 898
QY 917 TTTTAAGTCAAGATTTGTTAATATATTTTCAACAACCTCATGCTTCAAGCTTTTGG 976
Db 899 TGGCTTCCGAGATTTGCTCAACATGTTTGAAGAACCTTAATCCCAACACTGATTG 958
QY 977 CCTGCTCAAGACACATCTCTCTGATGAGCACTTTGAGGCTACCTTGAATCGGAGTTC 1036
Db 959 AATGGTAAAGACATTTATAGCCCATGAACACCTCTGGGCACTCCCTGACGTGAC 1018
QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAGCCAGATG--TGTCTGATCTGAGAGTA 1093
Db 1019 GGTGATAGCTGCTGCTGTTCCCAACACCCCAAGTCAAGATCTCAGACATGACTTCA 1078
QY 1094 AGATGCGCTTGTCAAGTGAATTAATGAAGCTTTTCTATCCCACT-----1143
Db 1079 TTGCGAGCTGTGATGAGTGGAGGTCTATGAGAGACATGATAGAGGTCTCTTATG 1138
QY 1144 -----TGTATGATCTCACTTCCCTTGAAGCGTGTGATTTATGAGCTGCAAAATTAAGT 1198
Db 1139 CTCCTGCTGTGATCCACAGCGGCTATCTGCTTATGAGGCTGGGAGACTTGAAT 1198
QY 1199 GGTCTTCAAGAGAGCACTGTTGCTTAATAATTTGATCTTAAGAGTGAACCATATCT 1258
Db 1199 GGAATGCTTCAAAACCATCACTGTTGGCAACAAGTTGACCCAAAGGTATGATGATG 1258
QY 1259 TGATTAATGCTTGGCAAGAAAGCT 1283
Db 1259 CTCTTCAAGTCTTGAAGAAATACCT 1283

RESULT 9

US-10-084-406-14
; Sequence 14, Application US/10084406
; Publication No. US20030054525A1
; GENERAL INFORMATION:
; APPLICANT: Schvientek, Tilo
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-transferase, C2GNT3
; FILE REFERENCE: 4503/1G031
; CURRENT APPLICATION NUMBER: US/10/084,406
; PRIOR FILING DATE: 2002-02-25
; PRIOR FILING DATE: 2000-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 14
; LENGTH: 1317
; TYPE: DNA
; ORGANISM: Human
US-10-084-406-14

Query Match 14.1%; Score 191.8; DB 15; Length 1317;
Best Local Similarity 52.5%; Pred. No. 5.6e-44;
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACAGTGAATTGATCATTTATCAGACTCTAAGAGGTATGCTCAAAAGCTTGTCTCA 376
Db 317 TCACAGAGACTGTGAGCACTTCAAGCTGAAAGAAAGTTCATACGTTCCACGTGAGCA 376
QY 377 AGAGAGAAAGAACTTCCCAATGCTTCTTGTGTTCCCAAAAGTGCATTAATG 436
Db 377 AAGAAGAGGTGAGGTTCCCTATGTCATCTATGATGATTCATGGAAGATTGAAC 436
QY 437 TTGAAGGCTTATCATGCTATATATACACAGACATATTTACTCATCATTTATGATC 496
Db 437 TTGAAGGCTTATCATGCTATATATACACAGACATATTTACTCATCATTTATGATC 496
QY 497 GTAAAGCACTGATACCTTCAAAAGTTCAGTGAACATTTAGTAAAGCTTCTCCATA 556
Db 497 AGAAGTCCCGAAGAACTTCAAAAGGCGGTCAAGCAATTAATTTCTTCCCAATG 556
QY 557 TTTTCATGCTTCCAAATTAGAGGCTGTGGAATATGCCACATTTCCAGACTCCAGGCTG 616
Db 557 TCTTCATAGCCAGTAACTGCTGTGCGGTGTATGCTTCTGTCTCCAGGTGCAAGCTG 616
QY 617 ATTAAATGCTGTGCGACCTTCTGAAGTCTTCAATCCAGTGAATAATGTTATCACT 676
Db 617 ACCTCACTGCTGAAGAACTTGTCTCCAGAGCTCAGTCCGTGAATAATCTCTGAATA 676
QY 677 TGTGTGGGCAAGATTTTCCCTGAAGTCAATTTGTAATGAGTCAAGTGAAGAAAC 736
Db 677 CATGTGGAGCGACTTCTTAATAAGCAATGCAAGATGATGCCAGCTTCAAGATGT 736
QY 737 TCAATGAGCAAAATATGTTGAGACGAGTGAACCCCAACAGTAAATGGAAGATCA 796
Db 737 TGAATGGAGAAATAGATGAGAGAGTACCTCTTAAGCAGAAAGAAACCCGCTGA 796
QY 797 CTTAACCTCATGAACTTGAAGGAGTGTCTATGATATGTAAGTCAACATTAAGACA 856
Db 797 AATATCACTTGAAGTGTGAGAGACATTAAC-----CTAACCA 838
QY 857 ACATCTCAAGAGAGACACCCCAATCACTCATGATATTTGTTGGCAGTCTTATTTTG 916
Db 839 ACAAGAGAAAGATCCCTCCCTTAATTAATTAATTAATTAATTAATTAATTAATTA 898
QY 917 TTTTAAGTCAAGATTTGTTAATATATTTTCAACAACCTCATGCTTCAAGCTTTTGG 976
Db 899 TGGCTTCCGAGATTTGCTCAACATGTTTGAAGAACTTAATCCCAACACTGATTG 958
QY 977 CCTGCTTAAAGACACATCTCTCTGATGAGCACTTTTGGGCTACCTTGAATGGGCTTC 1036
Db 959 AATGGTAAAGACATTTATAGCCCATGAAGAAACCTCTGGGCAACCTTCAAGGTGAC 1018

QY 1037 CAGGAATACCTGGGAGATTTCAGATCAGCCAGAGT---TGTCTGATCTGCAGAGTA 1093
DB 1019 GGTGGATGCTGTGCTCTGTTCCTCAACCAACCCCAAGTACAGATCTCAGATGACTTCTA 1078
QY 1094 AGACTGCTCTGTCAAGTGTGAATTAATGAGGCTTTTCTATCCAGT----- 1143
DB 1079 TTGCGAGGCTGTGCAGAGTGCAGAGTGCATAGGAGACATGCATAGAGGTGCTCTATG 1138
QY 1144 -----TGTACTGATCTCAGCTTGCAGAGCTGTGTATTATAGAGCTGCAGATTAGGT 1198
DB 1139 CTCCCTGCTGTGATTCACACAGGCTATCTGCTTATAGGAGCTGGGAGCTTGAATT 1198
QY 1199 GGGTATCAAGATGAGATGCTTGTGCTATATATTTGATCTTAAAGTGAAGCCATCT 1258
DB 1199 GGAATGCTTCAAAACCATCAGCTGTGGCCAAACAGTTTACCCAAAGTATGATATAG 1258
QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283
DB 1259 CTCTCAGTCTTGAAGAAATACCT 1283

RESULT 10

US-09-797-207-3
Sequence 3, Application US/09797207
Patent No. US20020098563A1
GENERAL INFORMATION:
APPLICANT: KOSCIUSKO, BOZENA
TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
FILE REFERENCE: GUYCO-7P1
CURRENT APPLICATION NUMBER: US/09/797,207
CURRENT FILING DATE: 2001-03-02
EARLIER APPLICATION NUMBER: 09/495,913
EARLIER FILING DATE: 2000-02-02
EARLIER APPLICATION NUMBER: 60/118,674
EARLIER FILING DATE: 1999-02-03
NUMBER OF SEQ ID NOS: 20
SOFTWARE: Patent Ver. 2.1
SEQ ID NO 3
LENGTH: 2108
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Description of Artificial Sequence: Recombinant
OTHER INFORMATION: DNA
US-09-797-207-3

Query Match 14.1%; Score 191.8; DB 9; Length 2108;
Best Local Similarity 52.5%; Pred. No. 7.4e-44;
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;
QY 317 TGACCAATGATTTGATGATTTATACAGCTCTAAGAGTTATGCTCAAAAGCTTGTCTCA 376
DB 584 TCACCAAGAGCTGTGACACTTCAAGGCTAAGAGAGATTCATACAGTTCCCACTAGAGA 643
QY 377 AGAGAGAGAAAGCTTCCCAATAGCCCTATCTTGTGTTGCCAAGATGCAATATAG 436
DB 644 AAGAGAGGTGAGAGTTCCCTATTCATACATCTATGATTCATGAGAGATGAAACT 703
QY 437 TTGAAAGCTTATCAATGCTATATACACAGCAATATTTCTGCTCATTTATGATC 496
DB 704 TTGAAAGCTTATCGAGCTGTGTATGCCCCCTCAGAACATATCTGTGCTCATGATG 763
QY 497 GTAAGCACTGATACCTTCAAAAGTTGCCATGAAACATTTAGTGTGCTTCTCAATA 556
DB 764 AGAAGTCCCAAGAACTTTCAAGAGGCTCAAGAGATATTTCTGTGCTTCCCAAGT 823
QY 557 TTTTCAATGCTTCAATTTAGAGCTGTGATATGCTCCCACTTCCAGACTCCAGGCTG 616
DB 824 TCTTCATAGCCAGATGATGCTGTGCTGTGTTATGCTCTCTGCTCAGGCTGCAAGCTG 883
QY 617 ATTAAATGCTTGTGAGACTTCTGAAGCTTCAATCCAGTGAAGATATGTTATCACT 676

DB 884 ACTCAATGCTATGAAGACTTGTCTCCAGAGCTCAGTGCCTGGAATATCTTCTCTGATA 943
QY 677 TGTGTGGCAAGATTTTCCCTGAAGTCAATTTTGAATTTGTGTGAGCTTGAAGAAAC 736
DB 944 CATGTGGAGAGCACTTCTCTATTAAGAGCAATGAGATGTGTCAAGCTCTCAAGATG 1003
QY 737 TCAATGAGCAAAATTTTGAAGACGCTGAAACCCCAACAGATTAATTTGAAAGATCA 736
DB 1004 TGAATGAGAGAAATGAGATGAGATGAGATGATCTCTTAAGCAAGAGAAACCCGCTGA 1063
QY 797 CTTCATCATGATGATGACGGGTGCTTATGATATATGAGAGCTTCAATTAAGCAAA 856
DB 1064 AATATCATTTGAGATGTGAGAGACATTAAC-----CTAACCA 1105
QY 857 ACATCTCCAGAGAGCAACCCCAATACATTAAGATTTTGTGAGAGCTTATTTTG 916
DB 1106 ACAAGAGAGAGATCTCCCTTATTAATTAATTAATTAATTAATTAATTAATTAATTA 1165
QY 917 TTTTAAGTCAAGCATTTGTTAAATATATATTTTCAACACTCCATCTGTTCAAGACTTTT 976
DB 1166 TGGCTTCCCGAGATTTGTGCTGATATGATTTTGAAGAACCTTAATCCCAACATGAT 1225
QY 977 CTTGCTTAAAGACATATCTCTCTGATGAGCATTTTGGCTACTTGAATTCGGCTTC 1036
DB 1226 AATGGTAAAGACATTAATAGCCAGATGAAACCTCTGCGGCAACCTTCAGAGTGCAC 1285
QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAGCCAGAGT---TGTCTGATCTGCAGAGTA 1093
DB 1286 GGTGATGCCCTGCTGCTGTCTGCTTCCCAACCAAGTACAGATCTCAGATGACTTCTA 1345
QY 1094 AGACTGCTTGTCAAGTGAATTAATTAAGGCTTTTCTATCCAGT----- 1143
DB 1346 TTGCGAGGCTGTCAAGTGGAGGCTATGAGGAGACATCGATTAAGGCTGCTCTATG 1405
QY 1144 -----TGTACTGATCTCAACCTTGAAGCGGTGATTTTGAAGCTGCAAGATTAAGT 1198
DB 1406 CTCCCTGCTGTGATGATCAAGGAGGCTATCTGCTTTATGGGCTGGGAGCTTGAAT 1465
QY 1199 GGGTATCAAGATGAGCATTTGTTCTAATAATTTGATTTTAAAGTGAAGCCATATCT 1258
DB 1466 GGAATGCTTCAAAACCATCACTGTGGCCAAAGTTGACCCAAAGTATGATGATATG 1525
QY 1259 TGATTAATGCTTGGCAGAAAGCT 1283
DB 1526 CTCTCAGTCTTGAAGAAATACCT 1550

RESULT 11

US-09-981-353-43
Sequence 43, Application US/09981353
Patent No. US20020160382A1
GENERAL INFORMATION:
APPLICANT: Lasek, Amy W.
TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
FILE REFERENCE: PA-0038 US
CURRENT APPLICATION NUMBER: US/09/981,353
CURRENT FILING DATE: 2001-10-11
NUMBER OF SEQ ID NOS: 194
SOFTWARE: PERL Program
SEQ ID NO 43
LENGTH: 2147
TYPE: DNA
ORGANISM: Homo sapiens
FEATURES:
NAME/KEY: misc feature
OTHER INFORMATION: Imcyte ID No. US20020160382A1 2921009CBI
US-09-981-353-43

Query Match 14.1%; Score 191.8; DB 10; Length 2147;
Best Local Similarity 52.5%; Pred. No. 7.5e-44;
Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACGAGTATGTCATTTATCAGACTCTAAGAGTTATGCTCAAAAGCTTGTCTCA 376
 DB 683 TCACCGAGACTGTGAGCACTTCAAGGCTGAAGAGAGTTCACTACAGTCCCACTGACGA 742
 QY 377 AGAGAGAGAAAGCTCCCAATAGACTATCTTGTGTGTCACAAAGTGCATATGAG 436
 DB 743 AAGAAAGAGTGAAGTTCCTTATGCTACTCTATGTGATTAAGAAAGTGAAGT 802
 QY 437 TTGAAAGGCTTATCATGCTATATACACCAAGCAATATTTAGTCACTCATATGATC 496
 DB 803 TTGAAAGGCTACTGACAGCTGTGTATGCCCCCTCAGAACATATAGTGTCCATGTGATG 862
 QY 497 GTAAAGGCACTGATACCTTCAAGTTGAGTGCATGAACAATTTAGTCAAGTCTTCCATTA 556
 DB 863 AAGAGTCCCGAAGAACTTTCAAGAGGCGGTCAAGACATATTTCTTGTCTTCCAAATG 922
 QY 557 TTTTCATGCTTCCAAATTTAGAGGCTGTGAAATATGCCCATTTCCAGACTCCAGGCTG 616
 DB 923 TCTTCATAGCCAGTAAAGTGTGTTCCGGGTGTTATATGCTCTGATCCAGGGTGAAGCTG 982
 QY 617 ATTATAATGCTTGTGAGACCTTTCGAACTCTTCAATCCAGTGAATATATGATCACT 676
 DB 983 ACTCACTGCACTGAGAAAGCTGTCTCAGAGCTCAGTGCCTGTGAAATATCTTCTGATTA 1042
 QY 677 TGTGTGGCAAGATTTTCCCTGAAGTCAAAATTTGATTTGATGTCTCAGATGAAAAAC 736
 DB 1043 CATGTGGAGAGGACTTCTCTATTAAGAGCAATGCAAGATGTCCAGGCTCTCAAGATGT 1102
 QY 737 TCATATGAGCAATATATGTTGAGACGCTGAAACCCCAACAGTAAATTTGAAATATCA 796
 DB 1103 TGAATGGAGAGATACATGAGAGTCAAGAGTACCTCTTAAGCAAAAGAACCCCTGGA 1162
 QY 797 CTACCATCATGAACTTGAACGAGGTCCTTATGAATATGTAAGTCACTCAATTAAGAGAA 856
 DB 1163 AATATACCTTTGAGGTAGTGAAGAGACATTTAC-----CTAACCA 1204
 QY 857 ACATCTCCAAAGAGAACCCCCCATATACATTCAGATATTTGTGCACTGCTTATTTTG 916
 DB 1205 ACAAGAGAGAGATCTCCCTCTATTAATTAATTAATTAATTAATTAATTAATTAATTA 1264
 QY 917 TTTTAGTCAAGCATTTGTTAATATATTTTCAACACTCCATGCTCAAGCTTTTGTG 976
 DB 1265 TGGCTTCCGAGATTTGTCGCAACATGTTTGAAGAACCTTAATCCCACTGATG 1324
 QY 977 CCTGTCTAAAGACACATCTCTCTGATGAGCACTTTGGGCTACTTGAATGGGCTT 1036
 DB 1325 AATGGGTAAAGACATTTATAGCCAGATGAACACTCTGGGCAACCTTCAGCGTGAC 1384
 QY 1037 CAGGAATACCTGGGAGATTTCCAGATCAAGCCAGAGATG---TGCTGATCTGCAAGATA 1093
 DB 1385 GGTGATGCTGCTGCTCTGTTCCCAACCCCAAGTACACATCTCAGATGACTCTTA 1444
 QY 1094 AGACTGCGCTGTCAAGTGAATTAATTAAGGCTTTTCTATCCACT----- 1143
 DB 1445 TTCCAGAGGCTGTCAAGTGAAGGCTCATGAGGAGACATCAATTAAGGCTCTTATG 1504
 QY 1144 -----TGACTGATCTCACTCTGCAAGGCTGTGATTTATGAGAGTGAATTAAGGT 1198
 DB 1505 CTCCTGCTCTGGAATTCACACGCGGCTATCTGCTTATGAGGCTGGGAGCTTGAAT 1564
 QY 1199 GAGCTTAAAGATGAGCATTTGTTGCTAATTAATTTGATTTCAAGTGAAGCCATATCT 1258
 DB 1565 GAGTGTCTAAACATCACTGTTGGCCACAAGTTTGAACCAAGATGAATGATTAATG 1624
 QY 1259 TGAATTAAGCTTGGCAAGAAAGCT 1283
 DB 1625 CTCCTCAGTGTAGAGAAATACCT 1649

RESULT 12
 US-09-925-297-337
 ; Sequence 337, Application US/09925297

; Patent No. US20020081659A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Rosen et al.
 ; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
 ; FILE REFERENCE: PA105
 ; CURRENT APPLICATION NUMBER: US/09/925,297
 ; PRIORITY FILING DATE: 2001-08-10
 ; PRIOR APPLICATION NUMBER: PCT/US00/05989
 ; PRIOR FILING DATE: 2000-03-08
 ; PRIOR APPLICATION NUMBER: 60/124,270
 ; NUMBER OF SEQ ID NOS: 928
 ; SOFTWARE: Patentin Ver. 2.0
 ; SEQ ID NO 337
 ; LENGTH: 2229
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; LOCATION: (2208)
 ; OTHER INFORMATION: n equals a,t,g, or c
 ; NAME/KEY: misc feature
 ; LOCATION: (2216)
 ; OTHER INFORMATION: n equals a,t,g, or c
 ; US-09-925-297-337

Query Match 14.1%; Score 191.8; DB 9; Length 2229;
 Best Local Similarity 52.5%; Pred. No. 7.7e-44;
 Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACGAGTATGTCATTTATCAGACTCTAAGAGTTATGCTCAAAAGCTTGTCTCA 376
 DB 743 TCACCGAGACTGTGAGCACTTCAAGGCTGAAGAGAGTTCACTACAGTCCCACTGACGA 802
 QY 377 AGAGAGAGAAAGCTCCCAATAGACTATCTTGTGTGTCACAAAGTGCATATGAG 436
 DB 803 AAGAAAGAGTGAAGTTCCTTATGCTACTCTATGTGATTAAGAAAGTGAAGT 862
 QY 437 TTGAAAGGCTTATCATGCTATATACACCAAGCAATATTTAGTCACTCATATGATC 496
 DB 803 TTGAAAGGCTACTGACAGCTGTGTATGCCCCCTCAGAACATATAGTGTCCATGATG 922
 QY 437 TGTGTGGCAAGATTTTCCCTGAAGTCAAAATTTGATTTGATGTCTCAGATGAAAAAC 556
 DB 863 AAGAGTCCCGAAGAACTTTCAAGAGGCGGTCAAGACATATTTCTTGTCTTCCAAATG 982
 QY 923 TCTTCATAGCCAGTAAAGTGTGTTCCGGGTGTTATATGCTCTGATCCAGGGTGAAGCTG 1042
 QY 617 ATTATAATGCTTGTGAGACCTTTCGAACTCTTCAATCCAGTGAATATATGATCACT 676
 DB 1043 ACTCACTGCACTGAGAAAGCTGTCTCAGAGCTCAGTGCCTGTGAAATATCTTCTGATTA 1102
 QY 677 TGTGTGGCAAGATTTTCCCTGAAGTCAAAATTTGATTTGATGTCTCAGATGAAAAAC 736
 DB 1103 CATGTGGAGAGGACTTCTCTATTAAGAGCAATGAGAGTGTCCAGGCTCTCAAGATGT 1162
 QY 737 TCATATGAGCAATATATGTTGAGACGCTGAAACCCCAACAGTAAATTTGAAAGATCA 796
 DB 1163 TGAATGGAGAGAAATGATGAGTGAAGTCAAGGCTCTTAAGCAAAAGAAACCCGCTGGA 1222
 QY 797 CTACCATCATGAACTTGAACGAGGCTGTATGATATGTAAGTCACTCAATTAAGAGCAA 856
 DB 1223 AATATACCTTTGAGGTAGTGAAGACATTTAC-----CTAACCA 1264
 QY 857 ACATCTCAAGAGAGAACCCCCCATTAACATTAAGATTTTGTGAGAGTCTTATTTTG 916
 DB 1265 ACAAGAGAGAGATCTCCCTCTTATTAATTAATTAATTAATTAATTAATTAATTAATTA 1324
 QY 917 TTTTAGTCAAGCATTTGTTAATATATTTTCAACACTCCATGCTTCAAGACTTTTGTG 976
 DB 1325 TGGCTTCCGAGATTTGCTCAGACATGTTTGAAGAACCTTAATCCCACTGATG 1384

QY 977 CCGTGTCTAAGACACATCTCTCTGATGAGACATTTGGGCTTACCTTGATTGGGTTTC 1036
 Db 1385 AATGGGTAAGACACATTTATAGCCAGATGACACCTCTGGGCCACCTTCAGCGGTGCAC 1444
 QY 1037 CAGGAATACCTGGGGAATTTCCAGATCCAGCCAGGATG---TGTGTGATCGCAGAGTA 1093
 Db 1445 GGTGTGATGCTGGCTCTGTTCCCAACCCCAAGTACAGATCTGACATGACTTCTTA 1504
 QY 1094 AGACTGCGCTTGTCAGTGAATTTACTATGAGGCTTTTCTATCCCACT----- 1143
 Db 1505 TTGCGACGCTGTGTCAAGTGGCAGGTCATAGGAGAGACATGATAGGGTCTCTTATG 1564
 QY 1144 -----TGACTGATCTCACCTTGAGAGCGTGTGATTTATGAGCTGAGATTAAGT 1198
 Db 1565 CTCCTCTCTGGATCCACAGCGGCGCTATCTGCTTTATGGGCTGGGACTTGAATT 1624
 QY 1199 GGCCTTATCAAGATGACATTTGTTGCTATTAATTTGATTTGATTAAGTGAACCTTATCT 1258
 Db 1625 GGAATGCTTCAAAACCATCTGTTGGCCAAAGTTGACCAAGATGATGATATG 1684
 QY 1259 TGATTTAATGCTTGGCAGAAAGT 1283
 Db 1685 CTCTTACGTGCTTAGAAGAAATACCT 1709

RESULT 13

US-10-106-698-1555
 ; Sequence 1555, Application US/10106698
 ; Publication No. US20030109690A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ruben et al.
 ; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
 ; FILE REFERENCE: PA008P1
 ; CURRENT APPLICATION NUMBER: US/10/106,698
 ; PRIOR FILING DATE: 2002-03-27
 ; PRIOR APPLICATION NUMBER: PCT/US00/26524
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: US 60/157,137
 ; PRIOR FILING DATE: 1999-09-29
 ; PRIOR APPLICATION NUMBER: US 60/163,280
 ; PRIOR FILING DATE: 1999-11-03
 ; NUMBER OF SEQ ID NOS: 8564
 ; SOFTWARE: PatentIn Ver. 3.0
 ; SEQ ID NO 1555
 ; LENGTH: 2236
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc.feature
 ; LOCATION: (2215)..(2215)
 ; OTHER INFORMATION: n equals a,t,g, or c
 ; NAME/KEY: misc.feature
 ; LOCATION: (2223)..(2223)
 ; OTHER INFORMATION: n equals a,t,g, or c
 US-10-106-698-1555

Query March 14.1k; Score 191.8; DB 15; Length 2236;
 Best Local Similarity 52.5k; Pred. No. 7.7e-44;
 Matches 517; Conservative 0; Mismatches 432; Indels 36; Gaps 3;

QY 317 TGACCAAGTATGATGATTTATGACATCTTAAGAGTTATGCTCAAAAGCTTGCTCA 376
 Db 750 TCACCAAGACTGTGACACTTCAAGGCTGAAGAACTCATACAGTCCCACTAGCA 809
 QY 377 AGAGAGGAAAGCTTCCCAATAGCCATTTTGTGTCCCAAGAAAGATGATATG 436
 Db 810 AAGAGAGGTGAGACTCTCTATGCAATCTTATGATGATTCATGAGAAATGAAGT 869
 QY 437 TTGAAGGCTTATGATGATATATACACAGCAATATTTATGCTGATCCATTAATGATC 496
 Db 870 TTGAAGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 929

QY 497 GTAGGACCTGATACCTTCAAGTTGCAATGATGAAATTTAGCTAGTCTTCCAAATA 556
 Db 930 AGAAGTCCCAAGAACTTTCAAGAGGCGGTCAAGCAATATTTCTTGCTTCCAAATG 989
 QY 557 TTTTCATTTGCTTCAATTAAGAGCTGTGAAATATGCCACATTTCCAGATCCAGCTG 616
 Db 990 TCTTCATAGCAGTAACCTGTTGGGTGTTATGCTCTCGGTCCAGGTCAGAGCTG 1049
 QY 617 ATTTAATGCTTGTGAGACCTTTGAAAGCTTCAATCCAGTGAATATGATTAAGTACT 676
 Db 1050 ACCCTAATGATGAAAGACTTGTCCAGCTCAGCTCAGCGTGAATTAATCTTCTGATA 1109
 QY 677 TGTGTGGCAAGATTTTCCCTGAGTCAATTTTGAATTTGTTGCTCAGATGAAAAAC 736
 Db 1110 CATGTGGACGCACTTTCTTATTAAGAGCATGAGAGATGATCAGGCTCTCAAGATG 1169
 QY 737 TCAATGAGCAATATGTTGAGACGCTGAACCCCAACAGTAATTTGAAAGATTC 796
 Db 1170 TGAATGGAGGAAATGATGAGATGAGAGTACCTCTTAAGCAAAAGAAACCGCTGA 1229
 QY 797 CTACCATCATGACTTAGACGGGTGCTTATGAAATGTAAGCTACATTAAGACAA 856
 Db 1230 AATATCACTTAGAGTATGAGAGACATTAAC-----CTAACCA 1271
 QY 857 ACATCTCCAGAGAACACCCCCCAATACATCAGATATTTGTCAGATGCTTATTTG 916
 Db 1272 ACAAGAGAGAGATCTCCCTCTTATTAATTAATGTTTACAGGAGAAAGCTACATG 1331
 QY 917 TTTTAAGTCAAGATTTGTTAATATATTTTCAACAATCCATGTTCAAGATTTTGG 976
 Db 1332 TGCTTCCCGAGATTTGTTCCACATGTTTGAAGAACTTAAATCCCAACATGATG 1391
 QY 977 CCGGTCTAAGACACATCTCTCTGATGAGACATTTGGGCTACCTTGAATGGGTTTC 1036
 Db 1392 AATGGTAAAGACATTTATAGCCAGATGACCTCTGAGGCCACCTTCAGGTGAC 1451
 QY 1037 CAGGAATACCTGGGGAATTTCCAGATCAGCCAGATG---TGTGTGATCGCAGAGTA 1093
 Db 1452 GGTGTGATGCTGGCTCTGTTCCCAACCCCAAGTACAGATCTGACATGACTTCTTA 1511
 QY 1094 AGACTGCGCTTGTCAGTGAATTTACTATGAGGCTTTTCTATCCAGT----- 1143
 Db 1512 TTGCGAGGCTGTCAAGTGGCAGGTCATGAGGAGACATGATTAAGGCTGCTTATG 1571
 QY 1144 -----TGACTGATCTCACCTTTGAGACCGTGTATTTATGAGCTGCAATTAAGT 1198
 Db 1572 CTCCTGCTGTGATCCACAGCGGCTATCTGCTTATGAGGCTGGGACTTGAATT 1631
 QY 1199 GGCCTTATCAAGATGACATTTGTTGCTATTAATTTGATTTCTAAGTGAACCTTATCT 1258
 Db 1632 GGAATGCTTCAAAACCATCTGTTGGCCAAAGTTTGAACCCAAAGTATGATATATG 1691
 QY 1259 TGATTTAATGCTTGGCAGAAAGT 1283
 Db 1692 CTCTTACGTGCTTAGAAGAAATACCT 1716

RESULT 14

US-09-874-390-1
 ; Sequence 1, Application US/09874390
 ; Patent No. US20020081656A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Clausen, Henrik
 ; TITLE OF INVENTION: UDP-N-Acetylglucosamine:
 ; TITLE OF INVENTION: Galactose-beta-1,3-N-Acetylglucosamine-alpha-R/
 ; TITLE OF INVENTION: N-Acetylglucosamine-beta-1,3-N-Acetylglucosamine-alpha
 ; TITLE OF INVENTION: a-R (GlcNAc to GalNAc)
 ; TITLE OF INVENTION: beta-1,6-N-Acetylglucosaminyltransferase, C2/4
 ; FILE REFERENCE: P19801704 WO JNY
 ; CURRENT APPLICATION NUMBER: US/09/874,390
 ; PRIOR FILING DATE: 2001-06-04
 ; PRIOR APPLICATION NUMBER: DK PA 1998 01605
 ; PRIOR FILING DATE: 1998-12-04


```

: NUMBER OF SEQ ID NOS: 10
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 1
: LENGTH: 2319
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (496)..(1809)
: OTHER INFORMATION: cDNA sequence
: US-09-874-390-1

```

Query Match	Local Similarity	Score	Pos. 1	DB	9	Length	2319
Best Local Similarity	52.5%	Pred	19	7.9e-44			
Matches	517	Conservative	0	Mismatches	432	Indels	36
						Gaps	3
QY	317	TGACCACTGATATTGATGACATTTATATCAAGCTCTAAGAGGTTATGCTCAAAAGCTTGCTCTCA	376				
Db	812	TCACCAGAGACTGTGTAGACACTCAAGGGCTGAAGGAGAGTTCAATACAGTTCCCACTGACGA	871				
QY	377	AGGAGGAGAAAAGCTTCCCAATAGAGCTATTCCTTGGTGTGTCACAAAGAATAGCATATAGG	436				
Db	872	AAGAGAGGTGAGATTCCCTATGTGATACCTCTATGTGATTCATGAGAGAGTTGAAGAACT	931				
QY	437	TTGAAGGCTTATCCATGCTATATACAAACGACACATATTTACTGATCCATATATAGTC	496				
Db	932	TTGAAGGCTACTGAGACTGTGTATGCCCCCTCAGACATATATCTGTGTTCATGTGATG	991				
QY	497	GTAAGGACACGTATACCTTCCAAAGTTGGCCATGACATCAATTTAGCTAAGTCTTCTCCATA	556				
Db	992	AGAACTCCCGACGAAACTTTCAAAGAGGGCGGTCAAGACATATATCTTGCTTCCCAATG	1051				
QY	557	TTTTCATGTCTCCAAATTAGAGGCTGTGGAATATGCCACATTTCCAGACTCCAGGCTG	616				
Db	1052	TCTTCATGACCACTGATAGCTGGTTGGGGTGTATATGCTTCGTGTCAGAGGTGCAAGCTG	1111				
QY	617	ATTTAATTTGCTTGTGCGACTCTTGAAGTCTTCAATCAAGTGGAAATATGTTATCACT	676				
Db	1112	ACCTCAATGTGATGGAAGACTTGCTCCAGAGCTCAGTCCGGTGAATATCTCTCGAATA	1177				
QY	677	TGTGTGGGCAAGATTTTCCCGTGAAGTCAAAATTTGAAATGGTGTCAAGTTGAAAAGAC	736				
Db	1172	CATGTGGGACGACCTTCTCTATTAAGACAAATGCAAGATGTCCAGGCTCTCAAGATGT	1231				
QY	737	TCATATGACAAATATGTTTGAGACGCTGGAACCCCAACAGTAATTTGAAGATTTCA	796				
Db	1232	TGAATGGAGAGATATGCAATGAGTCAAGAGTACCTCTTAAGACAAAGAACCCGCTGGA	1291				
QY	797	CTTACATCATGTAATTAAGGGGCGCTTAATGATATGTAGAGCTACCAATTAAGAGCA	856				
Db	1292	AATATCACTTTGAGGTAGTGAAGACATTTAC-----CTAACCA	1333				
QY	857	ACATCTCCAAGAGAACACCCCCCAATCAATTCAGATATTTGTTGGACGTGTTATTTTG	916				
Db	1334	ACAAGAGAAAGATCTCCCCCTTAATTTAATATGTTTACAGGAGATGGTACATTTG	1399				
QY	917	TTTTTAAGTCAGACATTTGTTAATATATTTTCAACAATCCATGCTTCAAGCTTTTGG	976				
Db	1394	TGGCTTCCCGAATTTGTGCCAACATGTTTGAAGAACCTTAATATCCCAACAACGATTTG	1453				
QY	977	CTGTGCTAAGACACATATCTCTCTGTATGAGCACTTTTGGGCTACTTGTATGGGTTTC	1036				
Db	1454	AATGGTAAAGACATTTATAGCCAGATGAACCTCTGGGCCACCTTCAAGGCTGAC	1513				
QY	1037	CAGGAATACCTGGGGAGATTTTCAGATCAAGCCAGAGT-----TGTCTGATCTGAGAGTA	1097				
Db	1514	GATGATATCCCTGGCTCTGTGTCCAAACCAACCCCAATAGACATCTCAACATGACTTTCTA	1573				
QY	1094	AGACTCGCTTGTCAAGTGAATTAATCTATGAAAGGCTTTTTCATCCAGT-----	1143				
Db	1574	TTTCCAGGCTGTATCAAGTGGACAGGCTCATGAGGAGACATCATATAGGCTGTCTTATG	1633				
QY	1144	-----TGTACTGGAATCTCACTTCGAGCGGTGTATTTATGAGCTCGAATTAAGCT	1198				

Db	1634	CTCCCTGCTCGGAATCCACCAAGCGGGCTA	CTGCGTTATGGGGCTGGGACTTGGAA	TT	1693
Qy	1199	GGCTTATCAAGATGACATTGTTTGCTA	TTAAATTTGATTTCTAAGGTGAACCTATCT		1258
Db	1694	GGATGCTTCAAAACCATCACCCTGTGTGG	CCACAAGTTTGACCCCAAGCTAGATGATATG		1753
Qy	1259	TGATTAATGCTTGGCAGAAAGCT			1283
Db	1754	CTCTTCATGCTTAGAAGATTAACCT			1778

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RESULT 15
US-10-388-307-16
; Sequence 16, Application US/10388307
; Publication No. US20030180778A1
; GENERAL INFORMATION:
; APPLICANT: Schwientek, Tilo
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: upd-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-alpha-R / (GlcnAc
; TITLE OF INVENTION: to GalNAc) beta1,6-N-Acetylglucosaminetyltransferase, C2GntTr
; FILE REFERENCE: 4503/1G031
; CURRENT APPLICATION NUMBER: US/10/388,307
; CURRENT FILING DATE: 2003-03-13
; PRIOR APPLICATION NUMBER: US/09/645,192
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/150,488
; PRIOR FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 16
; LENGTH: 1203
; TYPE: DNA
; ORGANISM: Human
US-10-388-307-16

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Query Match	Similarity	Score	DB	Length
Best Local Match	52.1%	Pred. No. 4.1e-42		
Matches	502;	Conservative	0;	Mismatches 438; Indels 24; Gaps 3
QY	327	TTTGACATTTATCAGACTCTAAGAGGTTATGCTCCAAAAGCTTGCTTCAAAAGAGAGAGA	386	
DB	213	TTGCAGAGAAATCTTGACCCAGAGCCACTACATCAGACCCCTTATATTAAGSAAAGAGC	272	
QY	387	AAGCTTCCCAATAGCGTATTTCTTGATGTCACAAAGATGCATTAATGATGTAAGAGCT	446	
DB	273	TGACTTCCCTTGGATATATAAAGTCATCATCATCATCACTTTGACACCTTTGCAAGCT	332	
QY	447	TATCCATGCTATATACACACAGCACAATATTTACTGCACTCCATTATGATCGTAAGACAC	506	
DB	333	CTTCAGGGCTATTTAATCATGATGCCCAAAATATCTACTGTGTGATGATGATGAAAAAGAAC	392	
QY	507	TGATACCTCTCAAAGTGGCATGAAACAATTAAGCTAAGCTCTTCCCATATTTTCATATGC	566	
DB	393	AACGAAATTTAAAGTGGGTAGAGCACTATTAAGCTGTTCCCAACGCTTTCTTGAGC	452	
QY	567	TTCCAAATTAAGGCTGTGAATATGCCCACATTTCCAGCTCCAGCGCTGATTTAAATG	626	
DB	453	TTCCAAATGGAACCCGTTGTCTATGAGGGATCTCCAGGCTCCAGGCTGACCTGAACTG	512	
QY	627	CTTGTCGACCTTCTGAAGCTTTCATTCAGTGGAAATATGTTATCACTTGTTGGGCA	686	
DB	513	CATCAGAAATCTTTCCTGCTTCGAGGTCTCATGGAAGTACGTTATCAACACCTGGGGCA	572	
QY	687	AGATTTTCCCTGAAGTCAAAATTTTGAATGCTGTCAGATGTGAAAAAATCAATGAGAC	746	
DB	573	AGACTTCCCTGAAAAACCAACAAAGAAATGTTCAATCTGAAGAATTTTAAAGTAA	632	
QY	747	AAATATGTTGAGAGCGTGAALACCCCAACAGTAAATTTGAAAAGATTCACTTGACATCA	806	
DB	633	AAATATACCCCAAGGGGTGCTGCCCAAGCTCATGCACTTGAGACGGACTAAATATGTCAC	692	

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QY      807 TGAACCTTAGACGGGTCCTTATGAATATGTGAAGCTACCAATAGACACAACATCTCCA 866
      |||
Db      693 CCAAGAGCAGCTGGGCA-----AAGAGCTTTCCTATGTGATAGACACAGCGCTGAA 746
QY      867 GGNAGCACCCGCCCAATACATTCAGATATTTGTGGCAGTGCCTATTTTGTTTTAAGTCA 926
      |||
Db      747 ACGGCTCCCCCGCATATCTGACAAATTTACTTGGCTCTGCTATGTGGCTCTATCAAG 806
QY      927 AGCATTTGTTAAATATATTTTCAACAATCCATCGTTCAAGACTTTTGGCTGCTTA 986
      |||
Db      807 AAGGTTGGCAACTTGTGTCTGATGACCAAGGCTGTTGATTTGCTTCAATGTCTCAA 866
QY      987 AGACATACCTCTCCTGATGAGACATTTTGGGCTACCTGATTCGGGTTCCAGAAATAC 1046
      |||
Db      867 GGACACTTCAGTCCGATGAGCATTTCTGGGTGACACTCAATAGATTTCCAGGTCTCC 926
QY      1047 TGGGAGATTTCCAGATCAGCCAGCATGTCTGATCTGCAAGTAAAGCTCGCTTGT 1106
      |||
Db      927 TGGCTCTATGCCAAATGCAATCTCGACTG-----GAAACCTCAGAGCTAT 971
QY      1107 CAAGTGAATTAAGTATGAAGGCTTTTCTATCCAGTTGTAAGTCACTGATCTCACTTGAAG 1166
      |||
Db      972 AAAGTGAAGTGAATGAAGAGACAGACACGAGAGC---TCCACGGCCACTATGTACATGG 1028
QY      1167 CGTGTATTTATGAGCTGACAGATTAAGTGGCTTATCAAAAGATGACATTTGGTTGC 1226
      |||
Db      1029 TATTTGATCTATGGAACGAGACTTAAGTGGCTGTTAATTCACCAAGCCTGTTC 1088
QY      1227 TATTAATTTGATCTTAAGTGAACCTATCTTGAATTAATGCTTGGCAGAAAGCTTGA 1286
      |||
Db      1089 TAAAGATTGAGCTTAATTAATCACTTACCCCTTACTGTGAGATGCTAAGAACTGAGGCATCG 1148
QY      1287 AGAA 1290
      |||
Db      1149 CGAA 1152
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Search completed: February 1, 2004, 00:18:53
Job time : 528 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: January 30, 2004, 12:49:55 ; Search time 21 Seconds
(without alignments)
912.706 Million cell updates/sec

Title: US-10-084-406-2

Sequence: 1 MFIKCYFHTLQOKVILF.....DWITLPEKLFMDRLTTTS 453

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*

1: /cgn2_6/prodata/1/1aa/5A_COMB.pep:*
2: /cgn2_6/prodata/1/1aa/5B_COMB.pep:*
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6: /cgn2_6/prodata/1/1aa/backfiles1.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	868	36.3	438	3	US-09-233-506-2
2	863.5	36.1	428	1	US-07-955-041-4
3	863.5	36.1	428	1	US-08-227-455-4
4	863.5	36.1	428	1	US-08-472-482-4
5	863.5	36.1	428	1	US-08-487-069-4
6	863.5	36.1	428	3	US-09-233-506-3
7	711	29.8	400	1	US-08-118-906-14
8	711	29.8	400	1	US-08-486-196-14
9	711	29.8	400	1	US-08-488-135-14
10	711	29.8	400	2	US-08-474-065-14
11	711	29.8	400	3	US-09-233-506-4
12	383	16.0	126	1	US-08-118-906-4
13	383	16.0	126	1	US-08-486-196-4
14	383	16.0	126	2	US-08-488-135-4
15	383	16.0	126	2	US-08-474-065-4
16	355	14.9	126	1	US-08-118-906-2
17	355	14.9	126	1	US-08-486-196-2
18	355	14.9	126	1	US-08-488-135-2
19	355	14.9	126	2	US-08-474-065-2
20	172	7.2	64	3	US-09-233-506-10
21	172	7.2	64	3	US-08-118-906-6
22	126	5.3	33	1	US-08-486-196-6
23	126	5.3	33	1	US-08-488-135-6
24	126	5.3	33	2	US-08-474-065-6
25	119	5.0	316	1	US-08-597-236-12
26	119	5.0	316	1	US-08-746-682A-12
27	113.5	4.8	794	4	US-09-417-485D-8

28	113	4.7	695	4	US-09-134-001C-4341	Sequence 4341, Ap
29	106	4.4	33	1	US-08-118-906-8	Sequence 8, Appl1
30	106	4.4	33	1	US-08-486-196-8	Sequence 8, Appl1
31	106	4.4	33	1	US-08-488-135-8	Sequence 8, Appl1
32	106	4.4	33	2	US-08-474-065-8	Sequence 8, Appl1
33	102.5	4.3	433	3	US-09-345-236B-43	Sequence 43, Appl1
34	102.5	4.3	652	1	US-08-471-570-10	Sequence 10, Appl1
35	102.5	4.3	769	1	US-08-471-570-8	Sequence 8, Appl1
36	102.5	4.3	821	2	US-08-451-822A-13	Sequence 13, Appl1
37	102.5	4.3	821	4	US-08-323-430-13	Sequence 13, Appl1
38	100.5	4.2	2184	4	US-09-417-485D-6	Sequence 6, Appl1
39	100	4.2	439	3	US-09-457-046B-68	Sequence 68, Appl1
40	97.5	4.1	310	2	US-08-701-191A-7	Sequence 7, Appl1
41	97.5	4.1	853	4	US-08-913-880C-17	Sequence 17, Appl1
42	97.5	4.1	858	4	US-08-913-880C-16	Sequence 16, Appl1
43	97.5	4.1	860	4	US-08-913-880C-15	Sequence 15, Appl1
44	97.5	4.1	862	4	US-08-913-880C-14	Sequence 14, Appl1
45	97.5	4.1	865	4	US-08-913-880C-13	Sequence 13, Appl1

ALIGNMENTS

```
RESULT 1
US-09-233-506-2
; Sequence 2, Application US/09233506
; Patent No. 6136580
; GENERAL INFORMATION:
; APPLICANT: Yeh, Jinn-Chern
; TITLE OF INVENTION: A Beta-1-6-N-Acetylglucosaminyltransferase That Forms
; FILE REFERENCE: P-LJ 3415
; CURRENT FILING DATE: 1999-01-19
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 438
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-233-506-2

Query Match      36.3% Score 868; DB 3; Length 438;
Best Local Similarity 43.0%; Pred. No. 1.8e-76;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

Cy 23 LMLSLKLKLVN-----RRLFPQKDIYLVESLSTSPFVRN-RYTHVDEVRVYVNCG 75
Db 13 LMLGCVMLATVAKLKLSPKCDSDHGLGHSRESOSQYCRNITLYNFKLPKRISINC 72
Cy 76 IY-EGEPL-ETCKSLERRDIIIDDDVYAMTSDCIYGLGVAKVSKKESF 131
Db 73 VTRGDQAVVQALINNVKKR-EPPTDTHVLTTRDCHEFAERKFIQPLSKSEVF 131
Cy 132 PLASLVVHDAIVVERLHAIYNOHNYCIHDKRAPDFTKYAMNNLAKCFGNIFLASK 191
Db 132 PLASVWTHKIEFPELLAAVAPQNTYCVHDEKSPERFKAVALLISCFNVFLASK 191
Cy 192 LEAVYVHISRLQDLNGLSDLLKSGIQKRYVNLGQDPPLNSNRELYSELKKGAM 251
Db 192 LVRVYVMSRWQVDLNCMBDLQSSVPMYFINTGTDFPIKSNEMVQALMLNGRNS 251
Cy 252 LKTVKPSNKLERTYHELRVYEVVKLPITNISKAPPHNICIFVGSAYFLVSOAF 311
Db 252 MESVPPKHKETRKHFYVVR---DTLHL---TNKKDPPYNTLMFTGNATIVASRD 305
Cy 312 VKYIFNSIVQDFPASKOTYSPDEHFWATLIRVGIPEGI-SRSADVSDLOSKTRLYK 370
Db 306 VQHTLKNPKSQQLIEWKDTYSPDEHFMATIQARVWPGSVPMHFKYDISDMTISIRLYK 365
Cy 371 WNYEGGF-----YPSCTGSHLSVCIVGAELRWILKDHVWANKKDSYVDLILKCLA 425
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Db 366 WQHEGIDKGAFFAPGSGIHQAICTYAGADLNMQLQNHLLANKFDPKVDNALQCLE 425
QY 426 EKL 428
Db 426 EYL 428

RESULT 2

US-07-955-041-4
Sequence 4, Application US/07955041
Patent No. 5360733
GENERAL INFORMATION:
APPLICANT: FUKUDA, MINORU
APPLICANT: BIERHUIZEN, MARTI FA
TITLE OF INVENTION: A NOVEL BETAL-6
TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL AND FLORES
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
CITY: SAN DIEGO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/955,041
FILING DATE: 19921001
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CATHERYN
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9294
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-535-8949
TELEFAX: 619-535-9001
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 428 amino acids
TYPE: AMINO ACID
TOPOLOGY: linear
MOLECULE TYPE: protein
US-07-955-041-4

Query Match 36.1%; Score 863.5; DB 1; Length 428;
Best Local Similarity 43.1%; Pred. No. 4.9e-76;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;
QY 28 LKLLINVRRLF--PQKDIYLV-EYSLSSTSPFVNRNRYTHVDE--VRY-----EV 71
Db 1 MLRTLLRRRLFSYPTKYFVNLVSLITFSVLR--IHQKPEFVSYRHLIELAGNPSSDI 57
QY 72 NCGSIYQOEPLK-----SLEIRRDIIIDEDDVVAMTSDCIYQTLRGYAKLV 125
Db 58 NCTKVLQGDVNEIOKVKLEILTVAFKRP--RMTPDYINMTSDCSSFIKRRKIYIEPLS 115
QY 126 KEKSPFIAYSLVHKDAIWERLIIAHYNOHNYICIHDKAPDPTFKVAMNLIACFSN 185
Db 116 KEKEFPFIAYSIIVHHKIELMDRLIRAIYMPQNFYCVHDTKSEDSYLAAMGIAACFSN 175
QY 186 IFIASKLEAVEYAHISPLQDLNCLSDLSLSIQKTYINLCCGDPPLKSNFELVSELK 245
Db 176 VFVASRLSESVYVSWRSVQADLNCMDLVAMSANWKLINLCMDPPIKTNIEIYAKLKL 235
QY 246 LINGNMLETVPKSPKLERFTYHHELRVYEVY--KLPIRTNISKEAPPHNIQIVGSA 303
Db 236 LMGNNILETERMPHKEERW-----KGIYEVNGLT-INTGVVAKMLPPLLEIPLISGSA 287

QY 304 YFTLSQAFVKTIENNSIVQDFPFAWSKDTYSPDEHFATLIRVGPIDPEISRSQ-DVSDL 362
Db 288 YFVVSREYGVYVLONEKIQKLEMAQDTYSPDEYVATQRIPEVPSLSASKYDLSDM 347
QY 363 QSKTRLVKNMYEGGF-----YPSCTGSHRSVCYIAGAEIRMLIKDGHWFANKFDSKVD 417
Db 348 QAVARFYKQYFEDVDVSKGAFYPPCQSVHVASVICIFQAGDLMNMLRHHILFANKFDVVDV 407
QY 418 FILIKIAEKLIEQ 431
Db 408 LEAIOCEDEHLRHK 421

RESULT 3

US-08-227-455-4
Sequence 4, Application US/08227455
Patent No. 5624832
GENERAL INFORMATION:
APPLICANT: FUKUDA, MINORU
APPLICANT: BIERHUIZEN, MARTI FA
TITLE OF INVENTION: A NOVEL BETAL-6
TITLE OF INVENTION: N-ACETYLGLUCOSAMINYLTRANSFERASE, ITS ACCEPTOR MOLECULE,
TITLE OF INVENTION: LEUKOSIALIN AND A METHOD FOR CLONING PROTEINS HAVING
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: CAMPBELL AND FLORES
STREET: 4370 LA JOLLA VILLAGE DRIVE, SUITE 700
CITY: SAN DIEGO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/227,455
FILING DATE: 14-APR-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CAMPBELL, CATHERYN
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9957
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-535-8949
TELEFAX: 619-535-9001
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 428 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-227-455-4

Query Match 36.1%; Score 863.5; DB 1; Length 428;
Best Local Similarity 43.1%; Pred. No. 4.9e-76;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;
QY 28 LKLLINVRRLF--PQKDIYLV-EYSLSSTSPFVNRNRYTHVDE--VRY-----EV 71
Db 1 MLRTLLRRRLFSYPTKYFVNLVSLITFSVLR--IHQKPEFVSYRHLIELAGNPSSDI 57
QY 72 NCGSIYQOEPLK-----SLEIRRDIIIDEDDVVAMTSDCIYQTLRGYAKLV 125
Db 58 NCTKVLQGDVNEIOKVKLEILTVAFKRP--RMTPDYINMTSDCSSFIKRRKIYIEPLS 115
QY 126 KEKSPFIAYSLVHKDAIWERLIIAHYNOHNYICIHDKAPDPTFKVAMNLIACFSN 185
Db 116 KEKEFPFIAYSIIVHHKIELMDRLIRAIYMPQNFYCVHDTKSEDSYLAAMGIAACFSN 175

TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-487-069-4

Query Match 36.1%; Score 863.5; DB 1; Length 428;
Best Local Similarity 43.1%; Pred. No. 4,9e-76;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

QY 28 LKLNVRRLF--POKDIYV--EYSLSTSPFVANKYTHVDE---VYR-----EV 71
DB 1 MRLTLRRRLFSPTKYTFMVLVLSLITFSYLR--IHOKPEFVSVRLELAGENPSSDI 57
QY 72 NCSGIYEQEPLIGK-----SLERRDDIIDLDDVAVMTSDCDIYQTLRGYAOAKVS 125
DB 58 NCTKVLQGDVNEIQKVKLEILTVKFKRP--RWTPDDYINMTSDCSSFIKRRKIYVEPLS 115
QY 126 KEKSPPIAYSLVHKDAIMVERLTHATYNOHNYCIHYDRKAPDTEFKVAMNNAKCSN 185
DB 116 KEBAEPPIAYSLVHHKTEMLDRLRALYMPQNFCAVHDYKSEDSYLAAVWGIAACPSN 175
QY 186 IFIASKLEAVEYAHISRLQADINCLSDLKSSIQWKYVINLGGODPFLKSNFEVSEIKK 245
DB 176 VFVASSLESVYVYASNSRGVADLNCMKDLYAMSAWKYLINLGGMPFIKTNLEIVRKL 235
QY 246 LNCANMLETVKPNKSLERFTYHHLRVPYEV--KLPIRINISKEAPPHNIQIFVGS 303
DB 236 LMGNNLLETERMPSHKEERW-----KKRYEVVNGKL--TNTGYKMLPPLPTLPSGSA 287
QY 304 YFVLQAFYKYLFINNSIVODFFAMSKDTYSPDEHFWATLIRVPGIPEISRSQA--DVS 362
DB 288 YFVVSREYGYVLQNEKIQKMEMADITYSPDEYLMATIQRIPEVPGSLPASHKXDLSDM 347
QY 363 QSKTRIVKNNYEGFP----YPSCTGSHLSVCYGAELRWIKDGHFWANKRDSKYD 417
DB 348 QAVARFVKQYFEGDVSKAPYPCDGVHRSVCIFGAGDLNMMLRKHHLFANKEDVVD 407
QY 418 PILIKCLAEKLEBO 431
DB 408 LFAICLDLHLRHK 421

RESULT 6
US-09-233-506-3
Sequence 3, Application US/09233506
Patent No. 6136580
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
TITLE OF INVENTION: A beta-1,6-N-Acetylglucosaminyltransferase That Forms
FILE REFERENCE: P-LJ 3415
CURRENT APPLICATION NUMBER: US/09/233,506
CURRENT FILING DATE: 1999-01-19
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 428
TYPE: PRT
ORGANISM: Homo sapiens
US-09-233-506-3

Query Match 36.1%; Score 863.5; DB 3; Length 428;
Best Local Similarity 43.1%; Pred. No. 4,9e-76;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

QY 28 LKLNVRRLF--POKDIYV--EYSLSTSPFVANKYTHVDE---VYR-----EV 71
DB 1 MRLTLRRRLFSPTKYTFMVLVLSLITFSYLR--IHOKPEFVSVRLELAGENPSSDI 57
QY 72 NCSGIYEQEPLIGK-----SLERRDDIIDLDDVAVMTSDCDIYQTLRGYAOAKVS 125
DB 58 NCTKVLQGDVNEIQKVKLEILTVKFKRP--RWTPDDYINMTSDCSSFIKRRKIYVEPLS 115

QY 126 KEKSPPIAYSLVHKDAIMVERLTHATYNOHNYCIHYDRKAPDTEFKVAMNNAKCSN 185
DB 116 KEBAEPPIAYSLVHHKTEMLDRLRALYMPQNFCAVHDYKSEDSYLAAVWGIAACPSN 175
QY 186 IFIASKLEAVEYAHISRLQADINCLSDLKSSIQWKYVINLGGODPFLKSNFEVSEIKK 245
DB 176 VFVASSLESVYVYASNSRGVADLNCMKDLYAMSAWKYLINLGGMPFIKTNLEIVRKL 235
QY 246 LNCANMLETVKPNKSLERFTYHHLRVPYEV--KLPIRINISKEAPPHNIQIFVGS 303
DB 236 LMGNNLLETERMPSHKEERW-----KKRYEVVNGKL--TNTGYKMLPPLPTLPSGSA 287
QY 304 YFVLQAFYKYLFINNSIVODFFAMSKDTYSPDEHFWATLIRVPGIPEISRSQA--DVS 362
DB 288 YFVVSREYGYVLQNEKIQKMEMADITYSPDEYLMATIQRIPEVPGSLPASHKXDLSDM 347
QY 363 QSKTRIVKNNYEGFP----YPSCTGSHLSVCYGAELRWIKDGHFWANKRDSKYD 417
DB 348 QAVARFVKQYFEGDVSKAPYPCDGVHRSVCIFGAGDLNMMLRKHHLFANKEDVVD 407
QY 418 PILIKCLAEKLEBO 431
DB 408 LFAICLDLHLRHK 421

RESULT 7
US-08-118-906-14
Sequence 14, Application US/08118906
Patent No. 5484590
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
TITLE OF INVENTION: Expression of the Developmental I
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,906
FILING DATE: 09-SEP-1993
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 400 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-118-906-14

Query Match 29.8%; Score 711; DB 1; Length 400;
Best Local Similarity 43.7%; Pred. No. 3,8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;
QY 108 SDCDIYQTLRGYAOAKVSKEKSPPIAYSLVHKDAIMVERLTHATYNOHNYCIHYDRK 167

Db 70 SSCKEYLTQSHYITAPLSKEADFLAYIMVHHFDTFARLPRALYMPQNIYCVHDEK 129
Qy 168 ADPTFVAMNNLAKCSNFIASKLEAVEYAHISRLQADLNCISDLKSIOMKYINLC 227
Db 130 ATTEFDVAEQLLSCFPNAPLASKMEPVYGGISRLQADLNCIRDLSAFEVSKYVINTC 189
Qy 228 GDFPLKSNFELVSELKUNGANMLETVPNSKLERFTY-HHELRRVPYEVYKLPRTN 286
Db 190 GDFPLKTNKEIYQYKGFKNITPGVLPRAHAIGRTKYVQHEHLKELSYV---IRTT 246
Qy 287 ISKEAPPNIQIFVGSAYFVLSQAFYKIFNNISYODFPMSKOTYSPDEHFWATLIRVP 346
Db 247 ALKPPPHNLITIFGSAVYALSRFANFVLHDPRAVDLLQMSKOTFSPDEHFWATLIRVP 306
Qy 347 GIPDEISRSADVDLSQSKTRLVKMYEGEFYPSCTGSHLSVCIGYGAELRWLIKDG 406
Db 307 GVFGSMFNAS-----WTGNLRAIKMSDMED-RHGCGHGHYVHGICITYGNDLKMVLNPS 360
Qy 407 WFANKDSKVDPLIKCLAEKLEEOOR 433
Db 361 LFANKPELNTYPLTVECL--ELRRRER 385

RESULT 8

US-08-486-196-14
Sequence 14, Application US/08486196
Patent No. 5731420
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
APPLICANT: Bierhuizen, Marc F.A.
TITLE OF INVENTION: Expression of the Developmental I
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/486,196
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906
FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-8901
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 400 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-486-196-14

Query Match 29.8%; Score 711; DB 1; Length 400;
Best Local Similarity 43.7%; Pred. No. 3.8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;
Qy 108 SDDDIYQTLRGVAGKVSKEKSPFLAYSLVYVHKAIMVERLHAIYNGHNYICHYDRK 167

Db 70 SSCKEYLTQSHYITAPLSKEADFLAYIMVHHFDTFARLPRALYMPQNIYCVHDEK 129
Qy 168 ADPTFVAMNNLAKCSNFIASKLEAVEYAHISRLQADLNCISDLKSIOMKYINLC 227
Db 130 ATTEFDVAEQLLSCFPNAPLASKMEPVYGGISRLQADLNCIRDLSAFEVSKYVINTC 189
Qy 228 GDFPLKSNFELVSELKUNGANMLETVPNSKLERFTY-HHELRRVPYEVYKLPRTN 286
Db 190 GDFPLKTNKEIYQYKGFKNITPGVLPRAHAIGRTKYVQHEHLKELSYV---IRTT 246
Qy 287 ISKEAPPNIQIFVGSAYFVLSQAFYKIFNNISYODFPMSKOTYSPDEHFWATLIRVP 346
Db 247 ALKPPPHNLITIFGSAVYALSRFANFVLHDPRAVDLLQMSKOTFSPDEHFWATLIRVP 306
Qy 347 GIPDEISRSADVDLSQSKTRLVKMYEGEFYPSCTGSHLSVCIGYGAELRWLIKDG 406
Db 307 GVFGSMFNAS-----WTGNLRAIKMSDMED-RHGCGHGHYVHGICITYGNDLKMVLNPS 360
Qy 407 WFANKDSKVDPLIKCLAEKLEEOOR 433
Db 361 LFANKPELNTYPLTVECL--ELRRRER 385

RESULT 9

US-08-488-135-14
Sequence 14, Application US/08488135
Patent No. 5766910
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
APPLICANT: Bierhuizen, Marc F.A.
TITLE OF INVENTION: Expression of the Developmental I
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/488,135
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906
FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-8901
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 400 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-488-135-14

Query Match 29.8%; Score 711; DB 1; Length 400;
Best Local Similarity 43.7%; Pred. No. 3.8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

QY 108 SDCDIYOTLNGVAKVSKKEKSPPIAYSLVYHKDAIMVERLTHATYNOHNYCIHYDRK 167
DB 70 SSCKEYLTQSHYITAPLSKEADFPPLAYIVIHHPDTPARLRAIYMPONITCYAVDER 129
QY 168 APDTFKVAMNNLAKCFENIFIAKLEAVEYAHISRLQADINCLSDLLKSSIQMKYVINTC 227
DB 130 ATTEFKDAVEQLSCFPNATLASKMEPVYGGISRLQADINCLSDLSAFESVSKYVINTC 189
QY 228 GQDFPLKSNFEIVSELKLGANGMLLVKRPNSKLEFRTY-HHELRAVPEYKLPRTN 286
DB 190 GQDFPLKTNKEIVQYLGFPGKNTTPGVLPRAHIGRTKYVQEHGKELSYV---IRTT 246
QY 287 ISKEAPPHNIQIFVGSAYFVLSQAFVYKIFNNISIVDFPAMSQDYSPEDEHFVATLIRVP 346
DB 247 ALKPPPHNLITYGSAVYVALSREFANFVLHDPRAVDLLQWSKDTFSPDEHFVATLIRIP 306
QY 347 GIGPEISRSADVDSDLOSKRLVKMNTYEGFFTPSCGSHLSVCITYGAALFRLIKDGH 406
DB 307 GVPGSMFNAS----WTGNIRAIKMSDMED-RHGCGGHYVHGICITYGNDLKMVLNPS 360
QY 407 WFANKPDSKVPDILIKLAEKLEEQOR 433
DB 361 LFANKFELNTPPLTVLVECL--ELHRRER 385

RESULT 10

US-08-474-065-14
Sequence 14, Application US/08474065
Patent No. 5830465
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
TITLE OF INVENTION: Expression of the Developmental I
TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSER: Campbell and Flores
STREET: 4370 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,065
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/118,906
FILING DATE: 09-SEP-1993
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 9526
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 400 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-474-065-14

Query Match 29.8%; Score 711; DB 2; Length 400;
Best Local Similarity 43.7%; Pred. No. 3,8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

QY 108 SDCDIYOTLNGVAKVSKKEKSPPIAYSLVYHKDAIMVERLTHATYNOHNYCIHYDRK 167
DB 70 SSCKEYLTQSHYITAPLSKEADFPPLAYIVIHHPDTPARLRAIYMPONITCYAVDER 129
QY 168 APDTFKVAMNNLAKCFENIFIAKLEAVEYAHISRLQADINCLSDLLKSSIQMKYVINTC 227
DB 130 ATTEFKDAVEQLSCFPNATLASKMEPVYGGISRLQADINCLSDLSAFESVSKYVINTC 189
QY 228 GQDFPLKSNFEIVSELKLGANGMLLVKRPNSKLEFRTY-HHELRAVPEYKLPRTN 286
DB 190 GQDFPLKTNKEIVQYLGFPGKNTTPGVLPRAHIGRTKYVQEHGKELSYV---IRTT 246
QY 287 ISKEAPPHNIQIFVGSAYFVLSQAFVYKIFNNISIVDFPAMSQDYSPEDEHFVATLIRVP 346
DB 247 ALKPPPHNLITYGSAVYVALSREFANFVLHDPRAVDLLQWSKDTFSPDEHFVATLIRIP 306
QY 347 GIGPEISRSADVDSDLOSKRLVKMNTYEGFFTPSCGSHLSVCITYGAALFRLIKDGH 406
DB 307 GVPGSMFNAS----WTGNIRAIKMSDMED-RHGCGGHYVHGICITYGNDLKMVLNPS 360
QY 407 WFANKPDSKVPDILIKLAEKLEEQOR 433
DB 361 LFANKFELNTPPLTVLVECL--ELHRRER 385

RESULT 11

US-09-233-506-4
Sequence 4, Application US/09233506
Patent No. 6136580
GENERAL INFORMATION:
APPLICANT: Fukuda, Minoru
TITLE OF INVENTION: Yeh, Jium-Chern
TITLE OF INVENTION: A Beta-1,6-N-Acetylglucosaminyltransferase That Forms
FILE REFERENCE: P-LJ 3415
CURRENT APPLICATION NUMBER: US/09/233,506
CURRENT FILING DATE: 1999-01-15
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 400
TYPE: PRT
ORGANISM: Homo sapiens
US-09-233-506-4

Query Match 29.8%; Score 711; DB 3; Length 400;
Best Local Similarity 43.7%; Pred. No. 3,8e-61;
Matches 143; Conservative 43; Mismatches 129; Indels 12; Gaps 5;

QY 108 SDCDIYOTLNGVAKVSKKEKSPPIAYSLVYHKDAIMVERLTHATYNOHNYCIHYDRK 167
DB 70 SSCKEYLTQSHYITAPLSKEADFPPLAYIVIHHPDTPARLRAIYMPONITCYAVDER 129
QY 168 APDTFKVAMNNLAKCFENIFIAKLEAVEYAHISRLQADINCLSDLLKSSIQMKYVINTC 227
DB 130 ATTEFKDAVEQLSCFPNATLASKMEPVYGGISRLQADINCLSDLSAFESVSKYVINTC 189
QY 228 GQDFPLKSNFEIVSELKLGANGMLLVKRPNSKLEFRTY-HHELRAVPEYKLPRTN 286
DB 190 GQDFPLKTNKEIVQYLGFPGKNTTPGVLPRAHIGRTKYVQEHGKELSYV---IRTT 246
QY 287 ISKEAPPHNIQIFVGSAYFVLSQAFVYKIFNNISIVDFPAMSQDYSPEDEHFVATLIRVP 346
DB 247 ALKPPPHNLITYGSAVYVALSREFANFVLHDPRAVDLLQWSKDTFSPDEHFVATLIRIP 306
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DB 361 LFANKFELNTPPLTVLVECL--ELHRRER 385


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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/488,135
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-8901
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 126 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-488-135-4

Query Match
Best Local Similarity 54.8%; Score 383; DB 1; Length 126;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

QY 119 YAOGLVSKKEKSPFIYSLVTHKDAIMVERLTHAIYNOHNYCIHYDRKAPDPTFKVAMNN 178
DB 1 YIVEPLSKKEAEFPPIYSLVTHKTEMLDRLRAIYMPQNFYCVHDTSEDSYLAAMVG 60
QY 179 LAKCFNIFIASKLEAVEYAHISRLOADINCLSDLLKSSIQWKYVINTLGGDFPKSNFE 238
DB 61 IASCFNIVFVASRLSESVYASMSRVQADINCKMDLYAMSANKYILINLGGMDFPIKTNLE 120
QY 239 LVSELK 244
DB 121 IVRKLK 126

RESULT 15
US-08-474-065-4
; Sequence 4, Application US/08474065
; Patent No. 5830465
; GENERAL INFORMATION:
; APPLICANT: Fukuda, Minoru
; APPLICANT: Bernutzen, Marti F.A.
; TITLE OF INVENTION: Expression of the Developmental I
; TITLE OF INVENTION: Antigen By a Cloned Human cDNA Encoding a Member of a
; TITLE OF INVENTION: Beta-1,6-N-Acetylglucosaminyltransferase Gene Family
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Campbell and Flores
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: USA
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/474,065
; FILING DATE:
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/118,906
; FILING DATE: 09-SEP-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Campbell, Cathryn A.
; REGISTRATION NUMBER: 31,815
; REFERENCE/DOCKET NUMBER: P-LJ 9526
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; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619) 535-9001
; TELEFAX: (619) 535-8949
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 126 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-474-065-4

Query Match
Best Local Similarity 54.8%; Score 383; DB 2; Length 126;
Matches 69; Conservative 23; Mismatches 34; Indels 0; Gaps 0;

QY 119 YAOGLVSKKEKSPFIYSLVTHKDAIMVERLTHAIYNOHNYCIHYDRKAPDPTFKVAMNN 178
DB 1 YIVEPLSKKEAEFPPIYSLVTHKTEMLDRLRAIYMPQNFYCVHDTSEDSYLAAMVG 60
QY 179 LAKCFNIFIASKLEAVEYAHISRLOADINCLSDLLKSSIQWKYVINTLGGDFPKSNFE 238
DB 61 IASCFNIVFVASRLSESVYASMSRVQADINCKMDLYAMSANKYILINLGGMDFPIKTNLE 120
QY 239 LVSELK 244
DB 121 IVRKLK 126

Search completed: January 30, 2004, 12:59:00
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OM protein - protein search, using sw model

Run on: January 30, 2004, 12:55:31 ; Search time 40 Seconds
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Title: US-10-084-406-2
Perfect score: 2389
Sequence: 1 MKIFKCFKHTLQOKVFILF.....DWITLPEKLFMDNLTTS 453

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 789580 seqs, 207824079 residues

Total number of hits satisfying chosen parameters: 789580

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Published Applications AA.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
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2	2389	100.0	453	15	US-10-084-406-2
3	2389	100.0	1104	9	US-09-793-998-11
4	1985.5	83.1	455	9	US-09-793-998-8
5	868	36.3	438	9	US-09-874-390-2
6	868	36.3	438	9	US-09-797-207-2
7	868	36.3	438	10	US-09-981-353-44
8	868	36.3	438	12	US-10-388-307-15
9	868	36.3	438	15	US-10-084-406-15
10	868	36.3	465	15	US-10-106-638-5832
11	868	36.3	663	9	US-09-797-207-4
12	868	36.2	465	9	US-09-925-297-796
13	863.5	36.1	428	9	US-09-797-207-14
14	863.5	36.1	428	12	US-10-388-307-13
15	863.5	36.1	428	15	US-10-084-406-13

16	862	36.1	406	9	US-09-797-207-9	Sequence 9, Appl
17	856.5	35.9	437	9	US-09-797-207-20	Sequence 20, Appl
18	711	29.8	400	12	US-10-388-307-17	Sequence 17, Appl
19	711	29.8	400	15	US-10-084-406-17	Sequence 17, Appl
20	609	25.5	237	9	US-09-793-998-2	Sequence 2, Appl
21	362	15.2	120	12	US-10-029-386-30717	Sequence 30717, A
22	285	11.9	145	12	US-10-108-260A-4764	Sequence 4764, Ap
23	219.5	9.2	865	12	US-10-347-470A-17	Sequence 17, Appl
24	213.5	8.9	827	12	US-10-347-470A-16	Sequence 16, Appl
25	174	7.3	57	12	US-10-029-386-28898	Sequence 28898, A
26	160	6.7	806	12	US-10-347-470A-15	Sequence 15, Appl
27	116	4.9	895	12	US-10-369-493-1036	Sequence 1036, Ap
28	113.5	4.8	794	12	US-10-304-095-8	Sequence 8, Appl
29	109	4.6	74	9	US-09-864-761-35468	Sequence 35468, A
30	108.5	4.5	661	10	US-09-801-368-4422	Sequence 422, App
31	107	4.5	62	12	US-10-029-386-28620	Sequence 28620, A
32	107	4.5	1089	12	US-10-369-493-2154	Sequence 2154, Ap
33	102.5	4.3	821	12	US-10-394-322A-27	Sequence 27, Appl
34	100.5	4.2	665	12	US-10-130-973A-9	Sequence 9, Appl
35	100.5	4.2	882	12	US-10-130-973A-3	Sequence 3, Appl
36	100.5	4.2	907	12	US-10-130-973A-5	Sequence 5, Appl
37	100.5	4.2	2184	12	US-10-304-095-6	Sequence 6, Appl
38	100	4.2	439	10	US-09-866-572A-68	Sequence 68, Appl
39	100	4.2	439	10	US-09-866-570A-68	Sequence 68, Appl
40	100	4.2	439	12	US-10-166-984-68	Sequence 68, Appl
41	100	4.2	439	15	US-10-166-984-68	Sequence 68, Appl
42	98	4.1	469	15	US-10-169-048-30	Sequence 30, Appl
43	97.5	4.1	459	12	US-10-452-024-182	Sequence 182, App
44	97.5	4.1	573	12	US-10-452-024-177	Sequence 177, App
45	97.5	4.1	634	12	US-10-369-493-13867	Sequence 13867, A

ALIGNMENTS

RESULT 1
US-10-388-307-2
Sequence 2, Application US/10388307
General Information:
GENERAL INFORMATION:
APPLICANT: Clausen, Henrik
TITLE OF INVENTION: UPD-N-Acetylglucosamine:
TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-1-yltransferase, C2GNT3
FILE REFERENCE: 4503/1G031
CURRENT APPLICATION NUMBER: US/10/388,307
CURRENT FILING DATE: 2003-03-13
PRIOR APPLICATION NUMBER: US/09/645,192
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: US 60/150,488
PRIOR FILING DATE: 1999-08-24
NUMBER OF SEQ ID NOS: 17
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 2
LENGTH: 453
TYPE: PRT
ORGANISM: Human
US-10-388-307-2
Query Match 100.0%; Score 2389; DB 12; Length 453;
Best Local Similarity 100.0%; Pred. No. 3,9e+219;
Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MKIFKCFKHTLQOKVFILF.....DWITLPEKLFMDNLTTS 60
DB 1 MKIFKCFKHTLQOKVFILF.....DWITLPEKLFMDNLTTS 60
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DB 61 THVDEVRVYVNSGIVGEPLRIGKSLRIRRDIIIDDDVYVNTSCDIIYQTLRGYA 120
QY 121 QKLVSKKSKFPPLAIVLHKDAIMVERLIHALYNGHNICYIHDKKAPDPTFVANNMLA 180

Db 121 QKLVSEKSPFIASLVVHKDAIMVERLTHAIYNQHNICYCHDRKADPTFKVAMNLA 180
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 Db 181 KCFSNIFIASKLEAVEYAHISRLQADNLCLSDLLKSSIQWKYVINCQODFPLKSNFELV 240
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 Db 241 SELKUNGANMLETVKPPSKLERFTYHHELRRVPEYVKLPRTNISKEAPPHNIQIFV 300
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 Db 301 GSAFYVLSQAFVKYIFNNSIVODFFAMSKDTYSPDEHFWATLIRVPGIPGEISRSADVS 360
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 QY 421 IKCLAEKLEEQORDWITLPSKLFMDRNLTTTS 453
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RESULT 2

US-10-084-406-2
 ; Sequence 2, Application US/10084406
 ; Publication No. US20030054525A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Schwiientek, Tilo
 ; APPLICANT: Clausen, Henrik
 ; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
 ; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine- α -R / (GLCNAc
 ; FILE REFERENCE: 4503/1G031
 ; FILE REFERENCE: 4503/1G031
 ; CURRENT APPLICATION NUMBER: US/10/084,406
 ; CURRENT FILING DATE: 2002-02-25
 ; PRIOR APPLICATION NUMBER: 09/645,192
 ; PRIOR FILING DATE: 2000-08-24
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 2
 ; LENGTH: 453
 ; TYPE: PRT
 ; ORGANISM: Human
 ; US-10-084-406-2

Query Match 100.0%; Score 2389; DB 15; Length 453;
 Best Local Similarity 100.0%; Pred. No. 3,9e-219;
 Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 QY 181 KCFSNIFIASKLEAVEYAHISRLQADNLCLSDLLKSSIQWKYVINCQODFPLKSNFELV 240
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RESULT 3

US-09-793-998-11
 ; Sequence 11, Application US/09793998
 ; Patent No. US20020045202A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KORCZAK, BOZENA
 ; APPLICANT: LEW, APRIL
 ; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGALUCOSAMINYLTTRANSFERRASE
 ; FILE REFERENCE: GAYCO-16
 ; FILE REFERENCE: GAYCO-16
 ; CURRENT APPLICATION NUMBER: US/09/793,998
 ; CURRENT FILING DATE: 2001-02-28
 ; PRIOR APPLICATION NUMBER: 60/185,702
 ; PRIOR FILING DATE: 2000-02-29
 ; NUMBER OF SEQ ID NOS: 11
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 11
 ; LENGTH: 1104
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-09-793-998-11

Query Match 100.0%; Score 2389; DB 9; Length 1104;
 Best Local Similarity 100.0%; Pred. No. 1,5e-218;
 Matches 453; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 QY 631 DLOSKTRLVKMNYYEGFFPSCGSHRSVCITYGAELRWLIKDGHPANKDSKVDPI 420
 Db 631 DLOSKTRLVKMNYYEGFFPSCGSHRSVCITYGAELRWLIKDGHPANKDSKVDPI 420
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RESULT 4
 US-09-793-998-8
 ; Sequence 8, Application US/09793998

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; Patent No. US20020045202A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; APPLICANT: LEW, APRIL
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGALYCOSAMINYLTRANSFERASE
; TITLE OF INVENTION: GENE
; FILE REFERENCE: GLYCO-16
; CURRENT APPLICATION NUMBER: US/09/793,998
; CURRENT FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: 60/185,702
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 455
; TYPE: PR
; ORGANISM: Mus sp.
; US-09-793-998-8

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Query Match      83.1%; Score 1985.5; DB 9; Length 455;
Best Local Similarity 82.8%; Pred. No. 1.3e-180;
Matches 370; Conservative 35; Mismatches 41; Indels 1; Gaps 1;

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QY 1 MKIFKCYFPHHTLOOKKFIPLFETLMTLSLKLNV-RLEFPQDIYLVESLSTSPFVNR 59
DB 1 MKIFRCFCFYTLLQOKFIPLLTMLTSLKLNVGRLFPORDIYLVESLSTSPFVNR 60
QY 60 YTHVXDEVREYVNCSGIYEOEPLIEGKSLERIRRDIDLEDVVAMTSDCDIYOTLNGY 119
DB 61 FPEGGAARDNVNCSGVYEHPELEIGKSLERIRRSIDLEDGVAMTSDCVYOTLNGY 120
QY 120 AQLTVSEKESFPIASLVVHKDALMVERLHAIVNQHNYICIHDRKAPDFFKAMNLT 179
DB 121 HEGLTVREEDBFPIASLVVHKDALMVERLIRAIYNQHNLYCICHYDLKSPDFFKAMNLT 180
QY 180 AKCFNSIFLASKLEAVEYAHISRLQADNLCLSDLKSSIQMKVYNLCGQDPLKSNFEL 239
DB 181 AKCFPIFIFLASKLEAVEYAHISRLQADNLCLSDLKSSIQMKVYNLCGQDPLKSNFEL 240
QY 240 VSELKTLNGANMLETYPENSKLEPFTYHELRVDEYEVKLPRTNISKAPPNITQIF 299
DB 241 VTELKSLQGRNMLETYRPPSAKTERFTYHELRQVYDYMKLPVKYNYSKGAPPNITQIF 300
QY 300 VGSAYFVLSOAFKYTFNNSIYODPFAMSKDTYSPDEHFWATLIRVPGIRGEISRAQDV 359
DB 301 VGSAYFVLSRAFKYTFNNSIYODPFAMSKDTYSPDEHFWATLIRVPGIRGEISRAQDV 360
QY 360 SDIQSTRLVKNMYZGFYPSCTGSHLSVCITYGAELRWLIKQGHFWANKFDSKVDPI 419
DB 361 SDIQSTRLVKNMYZGFYPSCTGSHLSVCITYGAELRWLIKQGHFWANKFDSKVDPI 420
QY 420 LKICLAEKLEEOORDWITLISEKLAMD 446
DB 421 LKICLAEKLEEOORDWITLISEKLAMD 447

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RESULT 5
US-09-874-390-2
; Sequence 2, Application US/09874390
; Patent No. US20020081656A1
; GENERAL INFORMATION:
; APPLICANT: Clausen, Henrik
; TITLE OF INVENTION: UDP-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta-1,3-N-Acetylglactosamine-alpha-R /
; TITLE OF INVENTION: N-Acetylglucosamine-beta-1,3-N-Acetylglactosamine-alpha
; TITLE OF INVENTION: a-R (GLNAC to GALNAC)
; TITLE OF INVENTION: beta-1,6-N-Acetylglucosaminyltransferase, C2/4
; FILE REFERENCE: P198601704 WO JNY
; CURRENT APPLICATION NUMBER: US/09/874,390
; CURRENT FILING DATE: 2001-06-04
; PRIOR APPLICATION NUMBER: DK PA 1998 01605
; PRIOR FILING DATE: 1998-12-04
; NUMBER OF SEQ ID NOS: 10

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; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 438
; TYPE: PR
; ORGANISM: Homo sapiens
; US-09-874-390-2

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Query Match      36.3%; Score 868; DB 9; Length 438;
Best Local Similarity 43.0%; Pred. No. 5.2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

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QY 23 LMLSLSLKLNV-----RRLFPQDIYLVESLSTSPFVNR-RYTHVDEVREYVNCSG 75
DB 13 LMLGCVMLATVAKLSFLKCDSDHLEGSRESOSQYCRNITLYNFKLPARSINCSG 72
QY 76 IY--EDEL--EIGKSLERIRRDIDLEDVVAMTSDCDIYOTLNGYKQVSKSEKSP 131
DB 73 VTRGDQAVLQALINNLNLEVKKR-BPEPTDHYSLTRDCHEFAERKFIQPLSKSEVER 131
QY 132 PIASLVVHKDALMVERLHAIVNQHNYICIHDRKAPDFFKAMNLTAKCFNSIFLASK 191
DB 132 PIASVTHKEIENFELRAVYAPQNYICVHDEKSPETFFKAVALLSCFNVFIASK 191
QY 192 LEAVEYAHISRLQADNLCLSDLKSSIQMKVYNLCGQDPLKSNFELVSELKTLNGAM 251
DB 192 LVRVYVSMRVOQDLNCKMEDLQSSVPMKTFYNTGCTDPIKSNEMVQALKMLNGRNS 251
QY 252 LETVAPNSKLEPFTYHELRVDEYEVKLPRTNISKAPPNITQIFVGSAYFVLSOAF 311
DB 252 MESEVPKHEKTRMKHFEVYR---DTLHL---TNKKDPPYNLMTIGNAVIVASRDF 305
QY 312 VKYTFNNSIYODPFAMSKDTYSPDEHFWATLIRVPGIRGEI-SRSADVSDLSQKTRLVK 370
DB 306 VQHYLKNPKSQQLLEWYKDTYSPDEHFWATLORAWPFGSVPMKPIDISDMTISIRLVK 365
QY 371 WNYEGF-----YPSCTGSHLSVCITYGAELRWLIKQGHFWANKFDSKVDPIILKCLA 425
DB 366 WQHGSDIDGAPAPFPCSGIHQRAICVYAGDLNMLQNHHLANKFDPKVDNALQCLE 425
QY 426 EKL 428
DB 426 EYL 428

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RESULT 6
US-09-797-207-2
; Sequence 2, Application US/09797207
; Patent No. US20020098563A1
; GENERAL INFORMATION:
; APPLICANT: KORCZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1,6-N-ACETYLGALYCOSAMINYLTRANSFERASE
; TITLE OF INVENTION: GENE
; FILE REFERENCE: GLYCO-7P1
; CURRENT APPLICATION NUMBER: US/09/797,207
; CURRENT FILING DATE: 2001-03-02
; EARLIER APPLICATION NUMBER: 09/495,913
; EARLIER FILING DATE: 2000-02-02
; EARLIER APPLICATION NUMBER: 60/116,674
; EARLIER FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 438
; TYPE: PR
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
; OTHER INFORMATION: amino acid
; US-09-797-207-2

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Query Match      36.3%; Score 868; DB 9; Length 438;
Best Local Similarity 43.0%; Pred. No. 5.2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

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QY 23 LMTLSLKLTINV-----RRLFPQKDIYVEYSLSTSPFVRN-RYTHVDEYREYVNCSSG 75
DB 13 LMLGCMYMLATYALKLSFRLKCDSDHLGLESRESOSQYCRNLVFLFLPAKRSINCSG 72
QY 76 IV--E0EPL--EIGKSLERIRDDIIDLDDVVAMTSDCDIYQTLRGVAKLVSEKESF 131
DB 73 VTRGD0EAVIQAALINMLEVKKR-EPFTDTHYLSLTRDCEHFAEKRFQFPLSKSEBEVF 131
QY 132 PIAYSLVHNDALMVERLTHAIYNQNIYCIHYDRAPDTPFYAMNNLAKCSNFIASK 191
DB 132 PIAYSWIHEKIEHFRLELAAYAPONITCVHDEKSPETFEKAVAAIISCFPNVFIASK 191
QY 132 PIAYSLVHNDALMVERLTHAIYNQNIYCIHYDRAPDTPFYAMNNLAKCSNFIASK 191
DB 132 PIAYSWIHEKIEHFRLELAAYAPONITCVHDEKSPETFEKAVAAIISCFPNVFIASK 191
QY 192 LEAVEVAHISRLQADINCLSDLLKSSIQWKYVINTLGGDFPLKSNFELVSELKNGANM 251
DB 192 LVRVYVWASRQVQADINCMEDLLQSSVPKCYPLNTGTDTPFIKSNMENVQALOMNGRNS 251
QY 252 LETVKKPPNSKLEFFTYHHELRVRYEVYKLPITNISKAPRNIIQIFVGSAYFVLSQAF 311
DB 252 MESEVPPKHETKMKYHFEVVR---DTLH---TNKKDPPPNLMTFGNAYIVASRDF 305
QY 312 VKYIFNNSIYODPFAMSKDTPSPDEHFWATLIRVPGIGBI-SRSADVSDLSQKTRLYK 370
DB 306 VQAVLKPKSQOLIEWKDTYSDEHLMATLQARMPGSPVPHPKYDLSDMTSTARLYK 365
QY 371 WNYEGFF-----YPSCTGSHLSVCIYGAELRMLIKDGHWFANKFDSKVDPIILKCLA 425
DB 366 WQHEGDIDKGAAPYAPCSGIHQALICVYGAGDINMMLQNHHLANFDPKVDNALQCLE 425
QY 426 EYL 428
DB 426 EYL 428

RESULT 7
US-09-981-353-44
; Sequence 44, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 44
; LENGTH: 438
; TYPE: PRF
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 2921009CD1
US-09-981-353-44

Query Match 36.3%; Score 868; DB 10; Length 438;
Best Local Similarity 43.0%; Pred. No. 5,2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

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DB 192 LVRVYVWASRQVQADINCMEDLLQSSVPKCYPLNTGTDTPFIKSNMENVQALOMNGRNS 251
QY 252 LETVKKPPNSKLEFFTYHHELRVRYEVYKLPITNISKAPRNIIQIFVGSAYFVLSQAF 311
DB 252 MESEVPPKHETKMKYHFEVVR---DTLH---TNKKDPPPNLMTFGNAYIVASRDF 305
QY 312 VKYIFNNSIYODPFAMSKDTPSPDEHFWATLIRVPGIGBI-SRSADVSDLSQKTRLYK 370
DB 306 VQAVLKPKSQOLIEWKDTYSDEHLMATLQARMPGSPVPHPKYDLSDMTSTARLYK 365
QY 371 WNYEGFF-----YPSCTGSHLSVCIYGAELRMLIKDGHWFANKFDSKVDPIILKCLA 425
DB 366 WQHEGDIDKGAAPYAPCSGIHQALICVYGAGDINMMLQNHHLANFDPKVDNALQCLE 425
QY 426 EYL 428
DB 426 EYL 428

RESULT 8
US-10-388-307-15
; Sequence 15, Application US/10388307
; Publication No. US20030180778A1
; GENERAL INFORMATION:
; APPLICANT: Schwiientek, Tilo
; TITLE OF INVENTION: UPD-N-Acetylglucosamine:
; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglucosamine-1transferase, C2GNT3
; FILE REFERENCE: 4503/1G031
; CURRENT APPLICATION NUMBER: US/10/388,307
; CURRENT FILING DATE: 2003-03-13
; PRIOR APPLICATION NUMBER: US/09/645,192
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/150,488
; PRIOR FILING DATE: 1999-08-24
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 15
; LENGTH: 438
; TYPE: PRF
; ORGANISM: Human
US-10-388-307-15

Query Match 36.3%; Score 868; DB 12; Length 438;
Best Local Similarity 43.0%; Pred. No. 5,2e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

```


QY 371 WNYEGFF-----YPSCTGSHLSRVCIGAAELRLIKDGHWPANKFDSKVDPIILKCLA 425
 Db 366 WQHEGDIDKGAAPYAPCSGIGHQRAICVYAGADLMMLOHNLHLANKFDPKVDNALQCLE 425
 QY 426 EKL 428
 Db 426 EYL 428

RESULT 9
 US-10-084-406-15
 ; Sequence 15; Application US/10084406
 ; Publication No. US20030054525A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Schuett, Tilo
 ; APPLICANT: Clausen, Henrik
 ; TITLE OF INVENTION: UPD-N-Acetylglucosamine;
 ; TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglactosamine-alpha-R / (GlcNAc
 ; FILE REFERENCE: 4503/1G031
 ; CURRENT APPLICATION NUMBER: US/10/084,406
 ; PRIOR FILING DATE: 2002-02-25
 ; PRIOR FILING DATE: 2000-08-24
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 15
 ; LENGTH: 438
 ; TYPE: PR
 ; ORGANISM: Human
 US-10-084-406-15

Query Match 36.3%; Score 868; DB 15; Length 438;
 Best Local Similarity 43.0%; Pred. No. 5,2e-74;
 Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY 23 LMLSLKLKLN-----RLFPQKDIYVEYSLSTSPFVRN-RYTHVQDEVEYVNCSG 75
 Db 13 LMLGCVMLATVATLALKLSFRLKCDSDHGLGSEHSESQYCRNLVNFLLKLPARKSINCSG 72
 QY 76 IV--EOEPL--EIGKSLERIRRDIDLEDDVVAWMTSCDIYOTLNGYAOKLVSKERKSF 131
 Db 73 VTRGDQAVLQALINLNLLEVKKR-EPFTDTHYSLTRDCENHFAERKFIQPLSKEEVERF 131
 QY 132 PIYSLVYHKAIDMVERLHAIVNQHNIYCIHYDRKAPDTFKVAMNNLAKCSNFIASK 191
 Db 132 PIYSLVYHKAIDMVERLHAIVNQHNIYCIHYDRKAPDTFKVAMNNLAKCSNFIASK 191
 QY 192 LEAVEYAHISRLQADINCLSDLLKSILQWKYVINLGGDFPLKSNFELVSEKLGANGM 251
 Db 192 LVAIVVYASWRSRQADINCMEDLLQSSVPMKFIPLNTGTDPIKSNAMVQALKMLNGRS 251
 QY 252 LETVAPPNKSLERFTYHHELRVYEVYKLPFRINISKEAPPHNIQIFVGSAYFVLQAF 311
 Db 252 MESEVPKHKETRWKTHFEVVR--DTLHL--TNKKDPPPNLMTFGNAVIVASRDF 305
 QY 312 VKTIFNNSIVQDFPANSKDTYSPDEHFMATLIRVPGIPEI-SRSAQDVSDLSQSKRLVK 370
 Db 306 VQVHLKPKSQQLIEWKDTYSPDEHFMATLIRVPGIPEI-SRSAQDVSDLSQSKRLVK 365
 QY 371 WNYEGFF-----YPSCTGSHLSRVCIGAAELRLIKDGHWPANKFDSKVDPIILKCLA 425
 Db 366 WQHEGDIDKGAAPYAPCSGIGHQRAICVYAGADLMMLOHNLHLANKFDPKVDNALQCLE 425
 QY 426 EKL 428
 Db 426 EYL 428

RESULT 10
 US-10-106-698-5832
 ; Sequence 5832; Application US/10106698
 ; Publication No. US20030109690A1

GENERAL INFORMATION:
 ; APPLICANT: Ruben et al.
 ; TITLE OF INVENTION: Colon and Colon Cancer Associated Polynucleotides and Polypeptide
 ; FILE REFERENCE: PA005F1
 ; CURRENT APPLICATION NUMBER: US/10/106,698
 ; PRIOR FILING DATE: 2002-03-27
 ; PRIOR APPLICATION NUMBER: PCT/US00/26524
 ; PRIOR FILING DATE: 2000-09-28
 ; PRIOR APPLICATION NUMBER: US 60/157,137
 ; PRIOR FILING DATE: 1999-09-29
 ; PRIOR APPLICATION NUMBER: US 60/163,280
 ; PRIOR FILING DATE: 1999-11-03
 ; NUMBER OF SEQ ID NOS: 8564
 ; SOFTWARE: PatentIn Ver. 3.0
 ; SEQ ID NO 5832
 ; LENGTH: 465
 ; TYPE: PR
 ; ORGANISM: Homo sapiens
 US-10-106-698-5832

Query Match 36.3%; Score 868; DB 15; Length 465;
 Best Local Similarity 43.0%; Pred. No. 5,7e-74;
 Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY 23 LMLSLKLKLN-----RLFPQKDIYVEYSLSTSPFVRN-RYTHVQDEVEYVNCSG 75
 Db 40 LMLGCVMLATVATLALKLSFRLKCDSDHGLGSEHSESQYCRNLVNFLLKLPARKSINCSG 99
 QY 76 IV--EOEPL--EIGKSLERIRRDIDLEDDVVAWMTSCDIYOTLNGYAOKLVSKERKSF 131
 Db 100 VTRGDQAVLQALINLNLLEVKKR-EPFTDTHYSLTRDCENHFAERKFIQPLSKEEVERF 158
 QY 132 PIYSLVYHKAIDMVERLHAIVNQHNIYCIHYDRKAPDTFKVAMNNLAKCSNFIASK 191
 Db 159 PIYSLVYHKAIDMVERLHAIVNQHNIYCIHYDRKAPDTFKVAMNNLAKCSNFIASK 191
 QY 192 LEAVEYAHISRLQADINCLSDLLKSILQWKYVINLGGDFPLKSNFELVSEKLGANGM 251
 Db 219 LVAIVVYASWRSRQADINCMEDLLQSSVPMKFIPLNTGTDPIKSNAMVQALKMLNGRS 278
 QY 252 LETVAPPNKSLERFTYHHELRVYEVYKLPFRINISKEAPPHNIQIFVGSAYFVLQAF 311
 Db 279 MESEVPKHKETRWKTHFEVVR--DTLHL--TNKKDPPPNLMTFGNAVIVASRDF 332
 QY 312 VKTIFNNSIVQDFPANSKDTYSPDEHFMATLIRVPGIPEI-SRSAQDVSDLSQSKRLVK 370
 Db 333 VQVHLKPKSQQLIEWKDTYSPDEHFMATLIRVPGIPEI-SRSAQDVSDLSQSKRLVK 362
 QY 371 WNYEGFF-----YPSCTGSHLSRVCIGAAELRLIKDGHWPANKFDSKVDPIILKCLA 425
 Db 393 WQHEGDIDKGAAPYAPCSGIGHQRAICVYAGADLMMLOHNLHLANKFDPKVDNALQCLE 452
 QY 426 EKL 428
 Db 453 EYL 455

RESULT 11
 US-09-797-207-4
 ; Sequence 4; Application US/09797207
 ; Patent No. US20020098563A1
 ; GENERAL INFORMATION:
 ; APPLICANT: KORCZAK, BOZENA
 ; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
 ; FILE REFERENCE: GLYCO-7P1
 ; CURRENT APPLICATION NUMBER: US/09/797,207
 ; PRIOR FILING DATE: 2001-03-02
 ; EARLIER APPLICATION NUMBER: 09/495,913
 ; EARLIER FILING DATE: 2000-02-02
 ; EARLIER APPLICATION NUMBER: 60/118,674
 ; EARLIER FILING DATE: 1999-02-03
 ; NUMBER OF SEQ ID NOS: 20

SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 663
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Recombinant
US-09-797-207-4

Query Match 36.3%; Score 868; DB 9; Length 663;
Best Local Similarity 43.0%; Pred. No. 9.7e-74;
Matches 182; Conservative 71; Mismatches 146; Indels 24; Gaps 9;

QY LMLSLKLTN-----RLPQKDIYEVSLSTSPFVRN-RYTHVDEVRVYVNSG 75
DB LMLGCMMLATATALKSLFKKCDSDHGLGESRESQYCRNLINFLKLPKRSINCSG 156
QY 76 IV--EQEPL--EIGKSLERIRDDIILEDVVAMTSDCDIYQTLRGYAOKLVSKKEKSF 131
DB VTRGDQAVLQALINNLLEVKKR--EPFTDHYSLTRDCEHFKAERKFTQPLSKKEVEF 215
QY 132 PIYSLVHWDAMVERLHAITNQHNYCIHYDRAPDTPFKYAMNNLAKCFNFIASK 191
DB 216 PIAYSMVHKEIKENFERLRAYVAPQNTICVHDEKSPFTFKAYVAILISCFNFIASK 275
QY 192 LEAVEVAHISRLQADNLCSDLKSSIQKTYVNLGQDFPLKSNFELVSELKUNGANN 251
DB 276 LVRVYVSWERVOADINCMEDLLQSSVPKCYFNTCGTDFPIKSNMENVQALMGLNGRS 335
QY 252 LEVYKPNKLEPFTYHHELRVRYEVYKLPRTINSKAPRNIOIFVGSAYFVLSQAF 311
DB 336 MESEVPPKHETKTKHFEVVR--DTLH--TNKKDPPNLTMTGNAYIVASRDF 389
QY 312 VKYIFNNSIVQDFEFAWSKDTYSPDEHFWATLIRVPGIPGEI--SRSAQVSDLSQKTRLYK 370
DB 390 VQHLNKPQSQQLIEWKDTYSPDEHFWATLQARMPGSPVPHPKYDSDMTSIARLYK 449
QY 371 WNYEGF-----YPSCTGSHLSVCTYGAAELRMLIKGHWANKPDSKVPDILKCLA 425
DB 450 WQHEBDIDKGAFAPCSGIHQRAICVYGADLMMWLQNHHLANKFDPKVDNALQCLE 509
QY 426 EKL 428
DB 510 EYL 512

RESULT 12
US-09-925-297-796
; Sequence 796, Application US/09925297
; Patent No. US20020081659A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA105
; CURRENT APPLICATION NUMBER: US/09/925,297
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05989
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 928
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 796
; LENGTH: 465
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (59)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-925-297-796

Query Match 36.2%; Score 866; DB 9; Length 465;
Best Local Similarity 43.0%; Pred. No. 8.8e-74;
Matches 182; Conservative 74; Mismatches 143; Indels 24; Gaps 10;

QY LMLS---LKLINVRRLFPQK--DIYEVSLSTSPFVRN-RYTHVDEVRVYVNSG 75
DB LMLGCMMLATATALKSLFKKCDSDHGLGESRESQYCRNLINFLKLPKRSINCSG 99
QY 76 IV--EQEPL--EIGKSLERIRDDIILEDVVAMTSDCDIYQTLRGYAOKLVSKKEKSF 131
DB VTRGDQAVLQALINNLLEVKKR--EPFTDHYSLTRDCEHFKAERKFTQPLSKKEVEF 158
QY 132 PIYSLVHWDAMVERLHAITNQHNYCIHYDRAPDTPFKYAMNNLAKCFNFIASK 191
DB 159 PIAYSMVHKEIKENFERLRAYVAPQNTICVHDEKSPFTFKAYVAILISCFNFIASK 218
QY 192 LEAVEVAHISRLQADNLCSDLKSSIQKTYVNLGQDFPLKSNFELVSELKUNGANN 251
DB 219 LVRVYVSWERVOADINCMEDLLQSSVPKCYFNTCGTDFPIKSNMENVQALMGLNGRS 278
QY 252 LEVYKPNKLEPFTYHHELRVRYEVYKLPRTINSKAPRNIOIFVGSAYFVLSQAF 311
DB 279 MESEVPPKHETKTKHFEVVR--DTLH--TNKKDPPNLTMTGNAYIVASRDF 332
QY 312 VKYIFNNSIVQDFEFAWSKDTYSPDEHFWATLIRVPGIPGEI--SRSAQVSDLSQKTRLYK 370
DB 333 VQHLNKPQSQQLIEWKDTYSPDEHFWATLQARMPGSPVPHPKYDSDMTSIARLYK 392
QY 371 WNYEGF-----YPSCTGSHLSVCTYGAAELRMLIKGHWANKPDSKVPDILKCLA 425
DB 393 WQHEBDIDKGAFAPCSGIHQRAICVYGADLMMWLQNHHLANKFDPKVDNALQCLE 452
QY 426 EKL 428
DB 453 EYL 455

RESULT 13
US-09-797-207-14
; Sequence 14, Application US/09797207
; Patent No. US20020098563A1
; GENERAL INFORMATION:
; APPLICANT: KORGZAK, BOZENA
; TITLE OF INVENTION: NOVEL CORE 2 BETA-1, 6-N-ACETYLGLYCOSAMINYLTRANSFERASE
; FILE REFERENCE: GLYCO-7P1
; CURRENT APPLICATION NUMBER: US/09/797,207
; CURRENT FILING DATE: 2001-03-02
; EARLIER APPLICATION NUMBER: 09/495,913
; EARLIER FILING DATE: 2000-02-02
; EARLIER APPLICATION NUMBER: 60/118,674
; EARLIER FILING DATE: 1999-02-03
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-797-207-14

Query Match 36.1%; Score 863.5; DB 9; Length 428;
Best Local Similarity 43.1%; Pred. No. 1.3e-73;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

QY LKLINVRRLF--PQKDIYV-EYSISTSPFVRNRYTHVDE---VRY-----EY 71
DB 1 MRLTLRRLRFLSYPTKYFVWLVLSLTSVLA---IHQKPEVSVSRHLEAGENPSSDI 57
QY 72 NCSGIYQBPLEIGK-----SLERIRDDIILEDVVAMTSDCDIYQTLRGYAOKLV 125
DB 58 NCTKVLGQDVNEIQVLEILITVFKFKRP--RWTDPDYIMTSDCSSFIKRRKYIEPIS 115
QY 126 KEKSPFIAYSLVHWDAMVERLHAITNQHNYCIHYDRAPDTPFKYAMNNLAKCFN 185

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Db      116 KEAEFPPIAVSIYVHHKIEMLDRLRAIYMPQNFYCVHVDTSSEDSYLAAVMGIAFCFSN 175
Qy      186 IPIASKLEAVEYAHISRLQADINCLSDLKSIQKQVYNLCGGDFPLKSPFELVSELK 245
Db      176 VFVASRLSESVVYASMSRVQADINCMKDLVYASANKYILINCGMPFPIKTINLEIYRKKL 235
Qy      246 LINGANMLETVKPPNSKLERFTYHHELRVYEVY--KLPIRTNISKEAPPNNIOIFVGS 303
Db      236 LMGENNLETERMRPMSHKEERK-----KKRYEVVNGKL-TNTGTVMPLPLETPIFFSGSA 287
Qy      304 YFVLSQAFVKYIYFNNSIVODFFAMSKDTYSPDEHFWATLIRVPGIPEGISRAQ-DVSDL 362
Db      288 YFVVSREYGYVLQNKIEKIQKLMEMADITYSPDEYLMATIORIPREVGSIPASHKXLDLSDM 347
Qy      363 QSKTRLVKNNYIEGFF-----YPSCTGSHLRSVCIYGAELRWLIDGHWFANKPFSKYD 417
Db      348 QAVARFVKQYFEGDVSCKAPYPPCDGVHRSVCIFGAADLNMMLRKHLFANKFDVVD 407
Qy      418 PILIKCLAEKLEEQ 431
Db      408 LFAIQCLDEHLRHK 421

```

RESULT 14
US-10-388-307-13

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/ Sequence 13, Application US/10388307
/ Publication No. US20030180778A1
/ GENERAL INFORMATION:
/ APPLICANT: Schwaientek, Tilo
/ APPLICANT: Clausen, Henrik
/ TITLE OF INVENTION: UPD-N-Acetylglucosamine:
/ TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglactosamine-alpha-R / (GlcNAc
/ FILE REFERENCE: 4503/1G031
/ CURRENT APPLICATION NUMBER: US/10/388,307
/ PRIOR FILING DATE: 2003-03-13
/ PRIOR APPLICATION NUMBER: US/09/645,192
/ PRIOR FILING DATE: 2000-08-24
/ PRIOR APPLICATION NUMBER: US 60/150,488
/ NUMBER OF SEQ ID NOS: 17
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 13
/ LENGTH: 428
/ TYPE: PRT
/ ORGANISM: Human
/ US-10-388-307-13

```

Query Match 36.1%; Score 863.5; DB 12; Length 428;
Best Local Similarity 43.1%; Pred. No. 1,3e-73;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

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Qy      28 LKTLNVRRLP--PQDIIYV-EYSLSSTPFVNRRTYHVKD---VRY-----EV 71
Db      1 MRTLRLRRLLFSYPTKYFMVVLSLITPSVLR---IHQKPFVSVRHLAAGENPSSDI 57
Qy      72 NSGSIYGEPELETGK-----SLRIRRDIILEDDDVYAMTSDCDIYQTLGAYQAKYS 125
Db      58 NCTKVLQGDVNEIQVKLEILTVKFKRP--RWPDDYINMTSDCSSFTKRRKIYVEPLS 115
Qy      126 KEKSPPIAVSLVNHDAIMVERLHAIFYNQHNIYCIHYDRKAPDTFKVAMNNLAKCFPSN 185
Db      116 KEAEFPPIAVSIYVHHKIEMLDRLRAIYMPQNFYCVHVDTSSEDSYLAAVMGIAFCFSN 175
Qy      186 IPIASKLEAVEYAHISRLQADINCLSDLKSIQKQVYNLCGGDFPLKSPFELVSELK 245
Db      176 VFVASRLSESVVYASMSRVQADINCMKDLVYASANKYILINCGMPFPIKTINLEIYRKKL 235
Qy      246 LINGANMLETVKPPNSKLERFTYHHELRVYEVY--KLPIRTNISKEAPPNNIOIFVGS 303
Db      236 LMGENNLETERMRPMSHKEERK-----KKRYEVVNGKL-TNTGTVMPLPLETPIFFSGSA 287

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Qy      304 YFVLSQAFVKYIYFNNSIVODFFAMSKDTYSPDEHFWATLIRVPGIPEGISRAQ-DVSDL 362
Db      288 YFVVSREYGYVLQNKIEKIQKLMEMADITYSPDEYLMATIORIPREVGSIPASHKXLDLSDM 347
Qy      363 QSKTRLVKNNYIEGFF-----YPSCTGSHLRSVCIYGAELRWLIDGHWFANKPFSKYD 417
Db      348 QAVARFVKQYFEGDVSCKAPYPPCDGVHRSVCIFGAADLNMMLRKHLFANKFDVVD 407
Qy      418 PILIKCLAEKLEEQ 431
Db      408 LFAIQCLDEHLRHK 421

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RESULT 15
US-10-084-406-13

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/ Sequence 13, Application US/10084406
/ Publication No. US20030054525A1
/ GENERAL INFORMATION:
/ APPLICANT: Schwaientek, Tilo
/ APPLICANT: Clausen, Henrik
/ TITLE OF INVENTION: UPD-N-Acetylglucosamine:
/ TITLE OF INVENTION: Galactose-beta1,3-N-Acetylglactosamine-alpha-R / (GlcNAc
/ FILE REFERENCE: 4503/1G031
/ CURRENT APPLICATION NUMBER: US/10/084,406
/ PRIOR FILING DATE: 2002-02-25
/ PRIOR APPLICATION NUMBER: 09/645,192
/ PRIOR FILING DATE: 2000-08-24
/ NUMBER OF SEQ ID NOS: 17
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 13
/ LENGTH: 428
/ TYPE: PRT
/ ORGANISM: Human
/ US-10-084-406-13

```

Query Match 36.1%; Score 863.5; DB 15; Length 428;
Best Local Similarity 43.1%; Pred. No. 1,3e-73;
Matches 187; Conservative 72; Mismatches 132; Indels 43; Gaps 12;

```

Qy      28 LKTLNVRRLP--PQDIIYV-EYSLSSTPFVNRRTYHVKD---VRY-----EV 71
Db      1 MRTLRLRRLLFSYPTKYFMVVLSLITPSVLR---IHQKPFVSVRHLAAGENPSSDI 57
Qy      72 NSGSIYGEPELETGK-----SLRIRRDIILEDDDVYAMTSDCDIYQTLGAYQAKYS 125
Db      58 NCTKVLQGDVNEIQVKLEILTVKFKRP--RWPDDYINMTSDCSSFTKRRKIYVEPLS 115
Qy      126 KEKSPPIAVSLVNHDAIMVERLHAIFYNQHNIYCIHYDRKAPDTFKVAMNNLAKCFPSN 185
Db      116 KEAEFPPIAVSIYVHHKIEMLDRLRAIYMPQNFYCVHVDTSSEDSYLAAVMGIAFCFSN 175
Qy      186 IPIASKLEAVEYAHISRLQADINCLSDLKSIQKQVYNLCGGDFPLKSPFELVSELK 245
Db      176 VFVASRLSESVVYASMSRVQADINCMKDLVYASANKYILINCGMPFPIKTINLEIYRKKL 235
Qy      246 LINGANMLETVKPPNSKLERFTYHHELRVYEVY--KLPIRTNISKEAPPNNIOIFVGS 303
Db      236 LMGENNLETERMRPMSHKEERK-----KKRYEVVNGKL-TNTGTVMPLPLETPIFFSGSA 287
Qy      304 YFVLSQAFVKYIYFNNSIVODFFAMSKDTYSPDEHFWATLIRVPGIPEGISRAQ-DVSDL 362
Db      288 YFVVSREYGYVLQNKIEKIQKLMEMADITYSPDEYLMATIORIPREVGSIPASHKXLDLSDM 347
Qy      363 QSKTRLVKNNYIEGFF-----YPSCTGSHLRSVCIYGAELRWLIDGHWFANKPFSKYD 417
Db      348 QAVARFVKQYFEGDVSCKAPYPPCDGVHRSVCIFGAADLNMMLRKHLFANKFDVVD 407
Qy      418 PILIKCLAEKLEEQ 431
Db      408 LFAIQCLDEHLRHK 421

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Job time : 41 secs
